Ont
L

" Sessional papers, Vol. 71, pt. 3, 1939

REPORT

OF THE

Minister of Public Works

FOR THE

PROVINCE OF ONTARIO

FOR THE

TWELVE MONTHS ENDING MARCH 31st, 1938

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 8 — 1939

ONTARIO

381762
12.6.40

TORONTO
Printed and Published by T. E. BOWMAN, Printer to the King's Most Excellent Majesty
1940

To:

THE HONOURABLE ALBERT MATTHEWS,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

As required by law, I submit for the information of Your Honour and the Legislative Assembly, the Annual Report of the works under the control of the Public Works Department, comprising the reports of the Deputy Minister, the Architect, Secretary and Accountant, for the twelve months ending the 31st of March, 1938.

Respectfully submitted,

COLIN A. CAMPBELL,
Minister of Public Works.

Department of Public Works, Ontario.
Toronto, March 27, 1939.

REPORT

OF THE

Deputy Minister of Public Works

HONOURABLE COLIN A. CAMPBELL,
Minister of Public Works, Ontario.

Sir,—

I have the honour to submit to you the accompanying reports of the branches of this Department for the fiscal year ending March 31st, 1938.

ARCHITECT'S BRANCH

The work of this branch for the year is summarized as follows:

To provide additional office space for the Department of Highways and Labour, a re-arrangement of offices of some departments was carried out, the major move consisting of a transfer of the Archives from the Tower in the East Block to the North Wing. To mark the occasion of the Coronation of His Majesty King George VI, a suitable decorative scheme was carried out on the front of the Parliament Buildings and was floodlighted at night.

A considerable amount of repairs to the buildings has been necessary and alterations and fireproofing have been carried out where possible.

A comparison of the expenditure for repairs to buildings indicates the extent of the necessary work performed.

Institution	Expenditures for fiscal year ending March 31, 1937	Expenditures for fiscal year ending March 31, 1938
Educational Buildings	$ 11.946 70	$ 52,463 42
Agricultural Buildings	10,747 51	15,686 77
Welfare Buildings	2,318 74	561 94
District Buildings	8,732 76	31,615 58
Hospitals and Reformatories	47,689 12	46,490 61
	$ 81.434 83	$ 146,818 32

The construction was commenced of three new Hospital Units, being located at St. Thomas, Brampton and Port Arthur; at Woodstock, construction was also started on the erection of a new Children's Unit.

This extensive programme could not have been adequately carried out without considerable additions to our staff and the services of architects in private practice were secured as associates in developing the various schemes in conjunction with the architects of the Department.

ENGINEER'S BRANCH

This Branch, dealing with the maintenance of locks, dams, bridges and protective works, was transferred to the Department of Highways on April 1, 1937.

OFFICE OF THE SECRETARY

A total of fifty-five contracts were awarded during the fiscal year, ten in connection with alterations and repairs to buildings and forty-five for new construction.

OFFICE OF THE ACCOUNTANT

Revenue totalled for the year, $158,245.16, the largest items being for the sale of Ontario House in London, England, for $146,724.62, and property at Smith's Falls for $2,500.00.

The construction of the new Hospital Units accounts for the considerable increase in capital expenditure.

A summary and comparison of ordinary and capital expenditures with the previous fiscal year is as follows:

SUMMARY OF EXPENDITURES

	Fiscal Year 1936-37	Fiscal Year 1937-38
Ordinary	$ 565,698 28	$ 734,365 19
Capital	219,710 32	2,015,118 07
	$ 785,480 60	$2,749,483 26

I have the honour to be, Sir,

Your obedient servant,

R. A. MCALLISTER,
Deputy Minister of Public Works.

REPORT OF THE ARCHITECT

The Honourable Colin A. Campbell,
Minister of Public Works, Ontario.
Sir,—

I have the honour to report on the work done by the Architect's Branch of the Department of Public Works, Ontario, during the fiscal year April 1st, 1937, to March 31st, 1938.

Government House:

Painting of the servants' wing and some minor repairs have been made.

Parliament Buildings:

The buildings, including the Parliament Buildings, East Block, numbers 11, 15 and 39 Queen's Park, Highways and Provincial Police Garages, 112 College Street, Liquor Control Board Offices, at 454 University Avenue, and the Labour Bureau Buildings at 70 Lombard Street have been kept in repair.

In the Parliament Buildings, the Archives were removed from the Tower in the East Block to provide additional accommodation for the Department of Highways. The basement of the north wing was partitioned off for the storage of the Archives and office space for the staff was provided in the north wing. Alterations were made to provide additional accommodation for women, by moving the lavatory to the fourth floor from the third floor, and so increasing the office space on the third floor. A report of the Fire Marshall drew attention to the need of some improvements as a precaution against fire and these improvements were made consisting chiefly of the closing up of openings. Alterations were begun to provide accommodation in the former suite of the Honourable the Speaker, for the Honourable the Lieutenant Governor, adding to it, as an additional room, the Ministers' dining room and providing and fitting up as a new dining room for the Ministers, the room immediately to the south. Further extensions to this suite were made by adding the reception room (used as the Members' dining room during the session) with communicating doors to the suite. Accommodation for the Honourable the Speaker was made on the third floor by making minor changes only. Improved vault accommodation was provided and a complete mezzanine floor was built in the west Treasury vault, third floor, for the Succession Duty Records.

In the East Block, offices for the Industrial and Labour Board were provided on the 9th floor and other offices were re-arranged with new glass partitions for the Highways' Department in the tower. New laboratories for the Department of Health were provided on the fourth floor and the stock rooms for that Department were moved to and fitted up on the 7th floor. Alterations were made on the 6th floor to provide office suite for the Minister of Labour. Extension of the dictograph system was made for the Department of Highways. On the occasion of the Coronation of His Majesty King George VI, the central south front of the Parliament buildings was decorated and flood lighted at night. The buildings at numbers 11 and 15 Queen's Park and all other outside fences, lamp standards and greenhouses in Queen's Park were painted. Arrangements were made to provide steam heating to the Academy of Medicine, 13 Queen's Park, and this building is now linked up with the central plant. The boundaries of the Government property in Queen's Park were established and survey monuments were placed to mark the boundaries. At 70 Lombard Street, the women's section of the Labour Bureau has been painted throughout.

Osgoode Hall:

A complete new heating plant, to replace the old boilers, has been planned to meet the additional load in heating the new wing extension of the Law Society on

Chestnut Street, in accordance with a joint agreement between the Law Society and the Department. The four large court rooms have been decorated throughout. Alterations have been made in the offices of the Public Trustee to provide filing and vault accommodation. Sketches were prepared for consideration of the extension of the Law Library into the west wing, but no action was taken.

EDUCATIONAL BUILDINGS

At the Normal and Model Schools, Toronto, several class rooms have been painted: extensive repairs and renewals were made to rain water gutters and down pipes and roofs. New stoker has been installed in number 1 boiler and both boilers were re-set.

At the Normal School, Hamilton, a deviation has been made in the lane to the rear of this property, whereby a section of ground, formerly cut off by the lane, has been joined up and new boundary fences to the property have been put in.

At the London Normal School a new boiler and stoker have been installed.

At the North Bay Normal School, repairs have been made to the outside concrete steps, sidewalks and retaining wall; all windows have been overhauled and repaired and main stair has been strengthened by suspending landings on steel rods; a new flag pole has been supplied and erected.

At Ottawa Normal and Model Schools the heating plant and boiler room have been renovated and new boiler settings and stokers have been installed. New exterior entrance doors and vestibule doors at boys' and girls' entrances have been installed.

At Peterborough Normal School, the main stair has been strengthened by suspending landing on steel rods from overhead steel beams; stone sills have replaced artificial stone sills in a number of windows.

At Stratford Normal School, a new ash elevator has been installed and repairs made to boiler piping; the main stair has been strengthened by suspending landings on steel rods from overhead steel beams.

In addition, all of the above schools have been kept in repair and painting has been done where found necessary. All boiler plants and heating apparatus have been inspected and all the necessary repairs and adjustments made.

At the Ontario School for the Deaf, Belleville, painting of the exterior of dormitories and of the basement rooms in the new junior residence has been done; general repairs have been done throughout and drains have been overhauled to give greater fall; alterations have been made to laundry and new washer and mangle have been installed.

At the Ontario School for the Blind at Brantford, the boys' dormitory, workshops and superintendent's house have been painted; repairs to roofs, flashings and gutters have been done. The laundry has been completely remodelled and new machinery, consisting of washing machine, extractor, tumbler dryer, etc., installed.

At the Training School for Technical Teachers at Hamilton, painting of the corridors throughout has been done and new blackboards have been installed.

Reports to the Department of Education:

Plans have been examined and reports made to the Department of Education in connection with the following schools throughout the Province:

Cornwall, Collegiate Institute: Report on plans of extension.
Embrum High School: Report on heating system.

Straffordville, Elgin County No. 14 Bayham: Stock sketch plans for 2-room school were sent to the Department of Education.

Fort Erie High School: Report re ventilation system.

Hearst and McVittie, Larger Lake, Public School Section No. 1: Stock sketch plans for three types of 4-roomed schools sent to Department of Education.

Hawk Junction United School Section No. 1: Stock sketch plan for 1-roomed school.

Little Current Public School: Stock sketch plan for 6-roomed school.

Michipicoten, Goudreau. Ont., School Section No. 6: Stock sketch plans for 1-roomed brick veneered school.

Mindemoya Consolidated School: Report re condition of roof; plans and specifications.

New Liskeard Public School: Report re central heating.

Ramore Separate School No. 1, Mayfair: Stock sketch plans for 4-roomed school sent to Department of Education.

Port Credit Public School, Forest Avenue: Report re basement walls.

Sault Ste. Marie School, Second line, Prince Township: Stock sketch plans for 1-roomed school.

Seaforth High School: Plans and specifications examined for extension to building and report made to the Department of Education.

Spanish, Indian Residential School: Report on shower baths.

Typical drawings were made for new courses of study in Home Economics and shop practice.

AGRICULTURAL BUILDINGS

Ontario Agricultural College, Guelph:

Repairs and rebuilding of steps to Memorial Hall and Watson Hall have been done; extensive repairs have been made to slate roofs of Main Building, Macdonald Hall, Mills Hall. Memorial Hall and Massey Library and new gutters have been installed in Mills Hall and new roofs have been put on sewage plant and piggery buildings. Exterior painting has been done to Massey Library and to the three cottages on the hill. The matter of the discontinuance of the Guelph Street Railway has been dealt with in correspondence. The Physics Building, which had a separate septic tank sewage disposal, has been connected up to the main sewage system; general repairs have also been made, as required.

Kemptville, Agricultural School:

The main drains leading to the activated sludge house have been taken up and relaid to new alignment. A new storm drain from the main building has been laid to greater depth to take floor drains in dairy basement rooms. The sheep pen. piggery and machine shed have been wired for electric light. screening for windows in main building and residence has been supplied.

Agricultural Experimental Farm, Ridgetown:

The new stock judging pavilion has been practically completed. This building is of frame and is two stories in height with a room 52′ 2″ x 40′ 2″ on the ground floor for stock judging and with outside stairs to class room above for seed judging and other classes. It is intended that this building shall be brick veneered at a later date and is heated meantime by natural gas stoves only. Repairs have been made to the foundation of the Superintendent's house; exterior painting has been done to the school, the Superintendent's house, double house for farm employees and to the office building.

Horticultural Experimental Station, Vinelands:

Repairs to boiler plant and installation of two mechanical stokers have been done.

Reports were made to the Department of Agriculture on Cold Storage Plants at Picton, Thedford and Parkhill.

DISTRICT BUILDINGS

Throughout the Districts, necessary repairs were made to the Court Houses, Registry and Land Titles Offices, Lock-ups and Mining Recorder's office buildings.

Algoma:

The exterior of the Court House at Sault Ste. Marie has been painted and also the interior of the court room and all public corridors. The roofs and flashings have been repaired and the brick and stone work have been re-pointed. For milk testing a new sink and cupboards have been installed in the Agricultural Offices in the Court House. Plumbing repairs and other minor repairs have been made. The old Registry Office has been leased to the Red Cross.

At the Jail, seats and tables for prisoners have been installed in the day spaces. The interior has been painted and repairs have been made to strengthen the window grilles. Roof repairs to gutters and down pipes have been made and plumbing fixtures, where required, have been replaced.

For the Ontario Air Base at Sault Ste. Marie, plans and specifications have been prepared for a new runway of reinforced concrete.

Cochrane:

Locks in the Court House have been fitted with new cylinders and a new steel plan cabinet has been supplied in the Land Titles Office.

At the Hearst Jail, the interior of the cells and the ceilings of the Jailer's house have been painted; fly screens have been provided for windows, and an outside coal bin has been installed and plumbing repairs made.

Sketch plans for a proposed jail at Porquois Junction have been made.

Kenora:

The exterior of the Court House has been painted; the Jailer's house has been re-shingled and repairs have been made to eavestroughing and windows have been caulked. Linoleum rugs have been supplied to Magistrate's and Judge's offices.

At Sioux Lookout Lock-up, repairs have been made to the septic tank and sewer and fly screens have been installed.

Manitoulin:

At the Court House and Jail at Gore Bay, water supply has been installed from Town mains with pump and pressure tank; plumbing fixtures and piping have been installed both in the Court House and Jail and new drainage system with sewage tanks has been completed. The exterior of the Court House and Registry Office and the interior of the Court House have been painted and repairs made to gutters and down pipe. An alarm system has been installed in the Jail and general repairs made on all buildings.

Muskoka:

The Court House, Registry Office and Jail Buildings at Bracebridge have been painted externally and new gutters and down pipes have been installed at the Court

House. The court room has been painted and the Judge's bench has been re-built and improved by building up the window behind it. New locks have been provided throughout the Court House and new office door name plates. The Judge's office of two rooms has been redecorated throughout and new furniture has been supplied for them. Repairs to steps at both outside entrances to Court House have been done and other general repairs.

The interior of the Jail has been partially remodelled; new windows cut for ventilation of cells, which were formerly without outside light, or air. and new doors to men's cells were installed; plaster repaired and new floors put in all corridor cells and office. The Registry Office has been re-shingled.

Nipissing:

The Court House building at North Bay has been completely overhauled; all outside brickwork repaired; old kitchen removed from the back of the Jail; roofs re-shingled and new gutters and down pipes added; exterior of building re-pointed; main doors have been changed to open out and new entrance steps built in. New lavatory provided behind Court Room and old Jury room altered to provide rooms for barristers. Court room has been re-wired and re-painted and fitted with new electric fixtures, blinds, linoleum and new benches. A new flag pole has been provided and set up in front of the building.

The Judges' Chamber brickwork has been repaired and exterior of the building has been painted; gutters repaired, and other minor repairs have been done. A roof over the entrance and side steps has been built to shelter them from ice. The Registry Office and Land Titles Office has been painted, both inside and outside. The T. B. Clinic, formerly the Jailer's house has been altered and the building has been painted outside and inside.

At the Jail, repairs to roofs and other general repairs have been done; a flag pole has been installed and new fencing has been supplied.

The building occupied by the Department of Highways has been fitted with a new heating boiler and minor changes have been made to the heating.

Parry Sound:

The exterior of the Jail and the Jailer's house at Parry Sound have been painted; new floors have been laid in the Jail offices and kitchen and a new electric stove has been supplied for the Jail kitchen.

The Lock-up at Burk's Falls has been thoroughly repaired, including plumbing work and the outside and inside have been painted. A new roof has been put on and a new vault has been built in the basement for the use of the Provincial Police.

Rainy River:

Repairs of a minor nature have been done; a new grille gate has been put in the women's cell corridor and the return steam pipe from the Jail to the Court House has been renewed.

Sudbury:

The exterior of the Court House and Registry Office, Sudbury, including the brickwork has been painted, also the corridors, the caretaker's rooms and the Judge's retiring room. New linoleum has been laid in the main corridor and radiator covers have been provided in the Court Room.

At the Jail, repairs to roofs and flashings have been done; the hot water supply and storage tank have been overhauled and the service improved. Repairs to shower bath mixers have been done.

In addition to the painting at the Registry Office, new gutters have been put on and a new side door provided and the locks repaired.

Temiskaming:

The stonework at the three entrances to Court House. Haileybury, have been re-set. The Court House roof has been renewed and all flashings repaired and painted and the ceilings of the caretaker's quarters have been painted.

At the Land Titles Office. the interior has been painted and new steel files for books of 48 shelves have been supplied.

At the Jail, an additional grille was put in the vestibule to add protection to the office. Metal cornice and flashings were painted. Plans for new cells in the basement were prepared and these were ordered from the Guelph Reformatory.

The Government Building at New Liskeard, occupied by the Department of Highways, was overhauled and offices were altered to provide better office accommodation. Re-wiring was done and new electric fixtures installed and the interior of the rooms painted. At entrance porch was added.

For Elk Lake, plans were prepared for a Lock-up with accommodation in the same building for the Mining Recorder's office. A survey of the site was made with special reference to water supply and drainage.

At the Lock-up at Englehart. only minor repairs have been made.

At the Mining Recorder's Office at Swastika. the interior has been re-painted.

Thunder Bay:

At the Court House. Port Arthur, a new roof was formed over the existing flat roof to give less fall and laid with a built up. twenty-year guarantee, roof; flashings were wedged up and renewed where required. Repairs throughout were made to plaster work: flag pole was painted: additional files for documents in Registrar's vault were installed and new shelving in the Mining Recorder's office.

At the Registry Office. repairs were made to brickwork and roofs.

At the Jail. Port Arthur. an additional grille was put in the vestibule to add protection to the office. A new stove was supplied for the laundry dryer and new beds for cells were supplied. Paint was supplied and applied by inmate labour.

Plans and specification were prepared for a new Lock-up at Geraldton, but were re-considered and held over.

ONTARIO HOSPITALS

Ontario Hospital, Brockville:

Consideration has been given to improve the dining hall and kitchen accommodation and plans and specifications were prepared in a complete study of the situation. The central tower was examined as to its safety and. after careful consideration. it was decided to demolish it by taking down to the eaves level of the main building and this has been done. General repairs were made to the brickwork of chimneys of cottages.

Ontario Hospital. Concord:

This building. formerly the Women's Jail Farm, leased from the City of Toronto, was occupied by patients on the 2nd of April. 1937. New electric dumb waiter was supplied and installed by the Otis Fenson Elevator Company.

Ontario Hospital, Cobourg:

The brick setting of the boiler has been re-built; wire guards have been supplied and installed on a number of windows and repairs to roofs have been made.

Ontario Hospital, Fort William:

An auxiliary pump for water has been installed.

Ontario Hospital, Hamilton:

A contract was let for painting of Orchard House and a section of the Main Building. Repairs have been made to copper flashings of the roof of the Assembly Hall. Tenders were called for the completion of the new residence for nurses, the foundations for which had been built, and plans and specifications for a new reception building have been prepared. Messrs. Murton and Husband of Hamilton acted as Associate Architects with the Department and completed the working drawings of both buildings designed by the Department and prepared the specifications. The matter of proceeding with these buildings was held over for further consideration.

Ontario Hospital, Kingston:

To prevent spring flooding from the higher fields behind the Farm to the Village of Portsmouth, storm drains were laid to drain into natural water courses. To prevent flooding over the hospital grounds from the east, a ditch was dug to carry the water south in a natural water course to the lake. Repairs have been made to the Gardener's House, Piggery and Root House, Main roof and eavestroughs. Exterior painting of a section of the Main building has been done; new casement windows and frames, complete with wire grilles to replace gradually all the old double hung windows, has been undertaken and some forty windows have now been installed. Livingston Stokers have been installed to numbers 3, 4 and 5 boilers. New steel sashes have been applied in kitchen for improved ventilation.

Ontario Hospital, London:

Repairs and alterations on the east cottage have been made to improve the exits and outside fire escapes have been installed. Lavatory accommodation for inmates has been installed in the Canning Factory; the brickwork of boilers has been extensively repaired. Re-wiring and painting has been done in the staff dormitory.

Ontario Hospital, New Toronto:

Sketch plans have been prepared for a new Reception Building. Plans and specifications have been prepared for a new Power House, tenders called for, and contracts have been awarded as follows:

General contractor—Teagle & Son, Toronto.
Boilers and Stokers—E. Leonard & Sons, London.
Coal Handling Equipment—United Steel Corporation Limited, Toronto.
Plumbing and Steam Piping—Purdy Mansell Limited, Toronto.
Radial Brick Chimney—Francis Hankin & Company Limited, Toronto.
Electrical Work—Canadian Comstock Company, Toronto.

The new building replaces an obsolete congested boiler room and is placed some distance south west of the Institution and connected to it by a concrete heating trench carrying the mains and returns and water service. The electric cables and telephones are placed alongside the trench. The power house accommodates two 385 H.P. E. Leonard four drum boilers with a working power of 150 lbs. per square inch and with sufficient space for a third boiler. Coal is brought to the plant by trucks and dumped into hopper and is elevated by a centrifugal discharge bucket elevator which discharges into a spiral conveyor running along the top of the coal storage bin of 150 tons capacity. From the storage bin, coal is fed by gravity to the stoker hoppers.

Repairs and painting have been done to the Superintendent's residence. Additional protective window screens have been installed in the Main building and repairs to roofs and gutters and painting have been done in the various buildings. Nurses' lavatories have been overhauled and repairs made to plumbing. A new lavatory for visitors have been fitted up.

Ontario Hospital, Orillia:

Contracts were awarded for the painting of the water tower and the dairy barn and the work has been carried out and completed. A contract for paving of driveways from the main entrance at the highway to the entrance to the Main building was awarded to the Non-Skid Pavement Company Limited of Toronto and the work has been completed. Considerable repairs and pointing of brickwork and plaster work has been done. The retaining wall between cottages D and the Nurses' residence was taken down and re-built. The coal trestle has been repaired and new timbers put in where necessary; the work was carried out by the Canadian National Railway under contract. Wire guards were installed in Cottages A and K. Two new Livingstone stokers to boilers have been installed.

Plans and specifications have been prepared to provide a fireproof sun room wing to replace the existing verandahs on the south of main building for female patients and to fireproof the corridors leading to it and to build two new fireproof stairs on the east side of the Main building, to replace inside wood stairs. The new wing is three stories and basement in height, with stair connecting the three floors to exits at grade. The basement is planned as a dining room to form part of a future scheme of internal alterations whereby the present patients' dining room will be altered for staff, and present staff dining room will become class rooms. New floors are terrazzo throughout; rooms are well lighted with casement metal sashes, protected by wire guards. All new stairs are fully enclosed, with metal doors and in every case have exits at grade and are completely fireproof. The general contract was awarded to Messrs. Bennett-Pratt Limited, Toronto; the heating and plumbing to Messrs. B. J. Miller & Company of Toronto and the electrical work to the Ontario Electrical Construction Company Limited of Toronto.

Ontario Hospital, Penetanguishene:

Sections of overhead power lines were placed in cables underground. The exterior woodwork of the Main building, outside fire escapes and water tank and several cottages for employees have been painted; smoke breeching in boiler room altered; new additional tumbler dryer has been installed in the laundry. Paving and draining of court yard and roadways were done. Alarm system for the Criminally Insane Building has been installed and additional inside grille installed.

Plans and specifications for a proposed new pavilion to form a wing on the north side of the Main building for female patients, were prepared and tenders were called for. The excavations for this new wing and the laying of main storm and sanitary drains have been done. Plans were prepared for temporary X-ray rooms.

Ontario Hospital, Toronto:

Repairs were begun to boundary wall; brickwork and repairs were made to roof of laundry building and several window guards were replaced.

Drawings have been prepared for proposed interior alterations to include new elevator shaft and improved entrances to ward dining room on third floor in men's section of the Main building.

Ontario Hospital, Whitby:

Extensive re-plastering, continued from last year, has been completed to the Administration building. Repairs throughout to brickwork, tile roofs, gutters, and flashings have been done, including roofs of Barn, Vocational Hall and Dining Hall. Brickwork of numbers 1 and 2 boilers have been repaired.

Ontario Hospital, Woodstock:

Repairs were made to brickwork and several dis-used chimneys in cottages taken down, being found to be dangerous. New storage water heater was installed. Repairs were made to the Railway siding and new lengths of rails and sleepers were renewed and re-ballasted. Brickwork of boilers has been repaired. New refrigerator units were supplied and installed in Diet kitchens of north cottages and a number of radiator guards were supplied and installed in these same cottages.

New Ontario Hospitals:

An extensive programme to provide additional hospital accommodation for mental patients was begun and to facilitate the work in connection with the various schemes, the services of architects in private practice were engaged and agreements were entered into with the various architects concerned for partial services, to include the designing of the external elevations, preparing working drawings, detail drawings and specifications; the supervision of the work being done by the Department officials.

Special reference in connection with the planning and laying out of the new institutions should be made to the services rendered by the Assistant Architect, Mr. Geo. N. Williams, whose intensive study of mental hospitals over a long period of years as Architect to the Department of Health, in dealing with requirements, maintenance and extension of existing institutions has fully qualified him to meet this new development, and who has been responsible for the planning of the new hospitals, preparing, in each case, sketches of a complete layout of the final grouping and of carefully considered plans of each individual building and supervising complete drawing of all special conditions of individual rooms and equipment for the comfort and care and hospitalization of patients.

In the selecting of the sites for the new hospitals, special consideration was given to the securing suitable level areas where neighboring town utilities of water supply, sewage disposal and electric services would be available and where such sites were readily available to the public with transportation facilities.

Ontario Hospital, St. Thomas, Mr. W. L. Somerville, F.R.I.B.A., F.R.A.I.C., A.R.C.A., Associate Architect.

A site of some 442.15 acres. more or less, approximately two miles south of St. Thomas on the east side of number 7 Highway from St. Thomas to Port Stanley was selected, being readily accessible by highway and street railway and having City water and sewage disposal facilities within reasonable distance. On this site, an institution as planned will finally accommodate 3,850 patients approximately. On August 4th, a contract was awarded to the Pigott Construction Company of Hamilton as General Contractors for the erection of the six Pavilions, each to house 212 patients and on October 20th another contract for the erecting of the Dining Hall and Kitchen Building and Male and Female Infirmary Buildings was awarded to the same firm. For the mechanical trades, contracts were awarded as follows:

Purdy Mansell Limited, Toronto—Plumbing work, male patients' pavilions Nos. 1, 3, 5.
Geo. C. Abbott Limited, Toronto—Heating work, male patients' pavilions Nos. 1, 3, 5.
Eggett and Company, London—Plumbing work, female patients' pavilions Nos. 2, 4, 6.
Bennett & Wright Limited, Toronto—Heating work, female patients' pavilions Nos. 2, 4, 6.
Canada Electric Co., Limited, Toronto—Electrical work for the six pavilions.

Goodram Bros., Hamilton—Plumbing work, Dining Hall, Kitchen and two Infirmary Buildings.
R. Rankin & Sons, St. Thomas—Heating work. Dining Hall, Kitchen and Two Infirmary Buildings.
Canada Electric Co., Toronto—Electrical work, Dining Hall. Kitchen and two Infirmary Buildings.

All the buildings will be built of fireproof material throughout. The outside walls will be faced with stone; the floors and flat roofs will be of tile and reinforced beam construction, the former finished in terrazzo or linoleum. All windows are of steel casement type protected on the outside with grille work. All buildings are connected by passageways at ground floor level, with the basement below for service pipes for heating, water supply and drainage. The Pavilions will be three stories in height with stairs and elevators connecting the floors. All these floors are practically alike each with a visitors' room, eight bed wards, single rooms and day rooms for patients with toilet room, wash room and bathrooms, diet kitchen, utility rooms and clothing rooms and nurses' stations.

On the ground floor is a Doctor's office and in an annex, outdoor clothing rooms and wash rooms.

The Central dining hall and kitchen building. This building, connected by corridor with the pavilions and other buildings, in addition to the large dining rooms for male and female patients, provides dining rooms for executives, nurses, female help, male attendants and male help. The kitchen wing will be complete with kitchen proper, refrigerator units and food preparation rooms and dish washing units. The building is one storey and basement in height.

Infirmary Buildings:The Infirmary Buildings, one for men and one for women, are two stories in height, similar in nature of accommodation to the pavilions, except that the Dining rooms are added, one on each floor for the patients with services complete. Each building accommodates 188 patients.

Contracts were awarded to Carroll-Sharp of Toronto for the laying of sanitary sewers and water mains from the City of St. Thomas to the site and for the sanitary services within the grounds and for storm drains to connect up with the adjoining creeks to the west of the L. & P. S. Railway.

Ontario Hospital, Woodstock. Roy Bishop, M.R.A.I.C., Associate Architect.

In addition to the lands on the east side of number eighteen highway, forming part of the Ontario Hospital property at Woodstock, it was found necessary to secure additional land to the south for the new unit, of 29.4 acres. The new institution designed as a Children's Unit for the epileptic children is composed of a group of one storey buildings with basements and planned to accommodate 425 patients when completed. On October 1st a contract was awarded to the Frid Construction Co., of Hamilton, as general contractors for the Reception building, Cottage buildings, one for male and one for female bed patients; dining hall and kitchen building, Cottage buildings, one for male and one for female for ambulant patients and the connecting corridors between the buildings. The contracts for the mechanical trades were awarded as follows:

Adam Clark Limited, Hamilton—Heating and Plumbing.
Canadian Comstock Co., Toronto—Electrical Work.

The buildings are of fireproof construction with buff pressed brick outside walls and sloping roofs covered with heavy butt asphalt slates, windows throughout are sliding sashes of metal in metal frames and have guards on lower part only. The unit will be connected up with the central heating plant of the existing hospital and the drains will connect up with the present drainage system; the sewage being pumped to Woodstock and the storm drain discharging into the Thames creek. A contract for the laying of storm and sanitary sewers has been awarded to the Sterling Construction Company of Windsor and a contract was awarded to J. A. Vance of Woodstock for extending the water main.

Ontario Hospital, Brampton, James H. Craig, F.R.A.I.C., B.A.Sc., Associate Architect.

The site of this new hospital is about one mile south-west of Brampton and is 306.6 acres in area. The ground slopes gently to the north and the buildings are planned to be diagonally across the site with all the patients' rooms facing south. the group of buildings will provide for 722 tubercular mental patients. A contract was awarded to the Goldie Construction Company of Toronto as general contractor for the Administration Building and awards were made for the mechanical trades as follows:

Geo. C. Abbott Limited, Toronto—Heating.
G. R. Muckart, Georgetown—Plumbing.
Moss Electric Co., Toronto—Electric wiring.

This building is fireproof throughout and is one storey and basement in height. Walls are of buff coloured brick with stone dressing; sashes are of steel of casement type; floors are of terrazzo, or linoleum throughout.

A contract was awarded to the Mohan Construction Co., Limited, of Toronto, for storm and sanitary sewers.

Ontario Hospital, Port Arthur, Charles B. Dolphin, M.R.A.I.C., Associate Architect; C. D. Howe & Co., Port Arthur, superintending engineers.

The site selected for this institution is immediately north of Port Arthur, with a high elevation commanding a wide view of Thunder Bay to the east and is bounded on the east by Algoma Street and occupies some 164.9 acres, more or less. The new institution is one for mental patients and will accommodate some 850 patients when completed. A contract has been awarded Mr. J. Tocheri of Port Arthur as general contractor for the Administration Building and awards were made for the mechanical trades as follows:

Summers Darling & Co. Ltd., Fort William—Heating and Plumbing.
Mahon Electric Co. Ltd., Port Arthur—Electric Wiring.

The building is one storey and basement in height and will be fireproofed throughout and is of local brick with local rubble stone base and dressed limestone trimmings.

REPORTS TO THE DEPARTMENT OF HEALTH

Plans have been examined and reports made to the Department of Health in connection with the following hospitals throughout the Province.

London Life Pavilion for T.B. Patients—Report on sketch plans submitted.
General Hospital, Belleville—Report on extension to Board room.
Memorial Hospital, Bracebridge—Report on proposed addition.
Burlington Symington Residence—Report on proposal to use as convalescent home for children.
St. Lawrence Sanatorium, Cornwall—Report on plans of nurses' residence submitted.
General Hospital, Cobourg—Report on electric power bill.
Essex County Sanatorium, Sandwich—Report on proposed new buildings and sketch plans.
Freeport Sanatorium—Report on proposed extension.

Hamilton Health Association—Report on new male help building.
Hamilton Mountain Sanatorium—Report on proposed addition to nurses' residence.
Hillcrest Convalescent Home, Toronto—Report on buildings.
Kirkland Lake. Hospital—Report on cement floor.
London Parkwood Hospital for Incurables—Report on new nurses' residence.
Leamington Hospital—Report on new hospital.
Victoria Hospital. London—Report on fire escape.
United Church Women's Missionary Society Hospital, Matheson—Report on site.
St. Andrew's Hospital, Midland—Report on proposed addition.
Oakville T. B. Sanatorium—Report on site.
Willett Hospital, Paris—Report on fire escape. Report on proposed extension.
St. Joseph's Hospital, Peterborough—Report on new front entrance.
St. Joseph's Hospital, Parry Sound—Report on fire escapes. Report on new wing.
War Memorial Hospital. Perth—Report and sketch for addition.
Norfolk Hospital, Simcoe—Report on new wing.
General Hospital, Porcupine—Report on floor construction.
Strathroy General Hospital—Report on Maid's Residence.
St. Mary's Hospital, Timmins—Report on nurses' home and pediatric department.
Metropolitan Hospital, Windsor—Report on plans.
Hotel Dieu Hospital. Windsor—Report on mechanical plans.
Toronto Hospital for Consumptives. Weston—Report on plans for extension.
Department of Health T. B. Clinic. Ottawa—Report on premises to be leased.
Department of Health T. B. Clinic, Timmins—Report on plans for premises to be leased.
Fort William Sanatorium—Report on extension.

WELFARE BUILDINGS

Boys' Training School, Bowmanville:

The Hospital and Reception building described in last year's report has been completed and occupied. There has been added to the basement accommodation for an X-ray department, fitted up with the necessary dark room, view room and waiting rooms. A survey has been made of farm lots 19 to 21, concession 6, Township of Darlight for the Department of Highways.

Girls' Training School, Galt:

The new dormitory building described in last year's report has been completed and occupied. Natural gas has been installed and new cooking ranges have been put in all kitchens throughout all buildings and water softeners have been installed in the school and the dormitory buildings. The view gallery of the school hall has been built up as a safety measure against children climbing. The driveways within the grounds have been laid with impervious surfaces and sketches for a new entrance gateway on the Hespeler-Galt Highway on the east boundary were prepared.

REFORMATORIES

Industrial Farm, Burwash:

The extension of the main building, referred to in last year's report, being the Dormitory and Hospital wing, has been carried on by inmate labour, under the supervision of the Provincial Secretary's Department from detail drawings furnished by this department, as the work progresses. Plans and specifications were prepared for a semi-detached house for guards' families. This building was of frame, brick veneered and was built under the supervision of the Provincial Secretary's Department, using inmate labour and a number of skilled mechanics.

Ontario Reformatory, Guelph:

The Assembly Hall referred to in last year's report has been completed. Plans and details were prepared for the reconstruction of the Dairy Barn, damaged by fire and the work has been carried out by inmate labour under the supervision of the Provincial Secretary's Department. Plans and specifications for the extension of the main building have been prepared. The new building consist of a wing to accommodate 309 cells and with the existing building, includes a hollow square which will serve the purpose of court yard entirely surrounded by buildings, three full stories in height. The exposed fronts are of rough cast on brickwork with gables of stone to match the existing facade. The cells, except in the north side, are back to back with a plumbing corridor between and are fitted with w. c. bowl, basin with hot and cold water and a table and bed. Cells in the north-east arm have windows in them and face the hollow square referred to. Ample bathing facilities are provided on each floor. The building is so placed that segregation of groups can be readily arranged for. The fronts of the cells are grilled and open on to a wide corridor lighted to the outside. Grille gates to cells are controlled at the end of each row of cells by lever controls outside the cell enclosure space. The buildings are fireproof throughout. The work is being carried on under the supervision of this department with hired skilled labour and using the inmates for the unskilled labour. Much of the material, bricks, structural tile and wall tile are made by inmate labour at New Toronto and all the metal grilles and doors and tables are being made at the Reformatory at Guelph.

ONTARIO SAVINGS OFFICES

New premises for branch offices were considered at 69 Wydenham Street, Guelph. A lease has been signed for new premises at 22 King Street, E. Hamilton, and repairs have been made on the vacated premises York and McNab Streets, as per agreements. New signs have been put on the premises at Pembroke. Changes have been made in the lighting at the University and Dundas Streets Branch, Toronto. A new office has been fitted up at 15 St. Clair E., Toronto. Leases have been renewed at 535 Danforth Ave., Toronto, and at Danforth Avenue and Fenwick Ave., Toronto. Premises have been leased at Sault Ste. Marie and plans made for alterations to premises and fitting up.

The following items of work have been carried out by the Department acting on behalf of other Departments.

Sketch plans for Weigh Scale Houses in Highways: report on building for Highway's office at Bancroft and preparing plans and specifications for improvements.

Report on properties at Chatham and Owen Sound for Highways: report on office for Employment Service, Hamilton.

Report on transfer of sections of land from City of London to the Government, being part of the area of the site of the Hygienic Institute, London.

Plans and specifications were prepared at the request of the Department of Health for a Comfort Station at Port Burwell. The work of building this station in frame construction has been carried out under contract.

Throughout the Province the annual inspection of boilers has been made and repairs where necessary have been made to heating plants.

I have the honour to be, Sir,

Your obedient servant,

George White, *Architect.*

Toronto, March 13th, 1939.

HONOURABLE COLIN A. CAMPBELL,
Minister of Public Works, Ontario.

Sir,—

I have the honour to submit the following statement showing the several contracts entered into with His Majesty during the twelve months ending March 31st, 1938, in connection with the Public Buildings and Works, subject to the control of the Public Works Department of Ontario.

I have the honour to be, Sir,

Your obedient servant,

DIGBY HORRELL,
Secretary and Purchasing Agent.

STATEMENT No. 20

Showing the several contracts entered into with His Majesty during the twelve months ending 31st March, 1938, in connection with the Public Buildings and Works, subject to the control of the Department of Public Works, Ontario.

Date	Work	Subject of Contract	Contractors	Amount
1937 May 10	Orillia, Ontario Hospital	Supply and installation of Stokers	Livingston Automatic Underfeed Stoker Co. Ltd., Hamilton	$10,500 00
June 2	Ottawa, Normal School	Resetting Boilers and installing Stoker	Arthur V. J. Herbert, Ottawa	6,693 50
June 7	Toronto, Normal School	Resetting Boilers and installing Stoker	C. B. Turner & Co. Ltd., Toronto	5,521 00
July 28	Port Burwell, Comfort Station	Erection of Comfort Station	C. A. Walker, St. Thomas	3,257 00
Aug. 4	St. Thomas, Ontario Hospital	Construction of 6 Dormitory Buildings	Pigott Construction Co. Ltd., Hamilton.	1,040,000 00 less Sales Tax included in Tender
Aug. 19	St. Thomas, Ontario Hospital	Electrical Work for 6 Dormitory Buildings	Canada Electric Co. Ltd., Toronto	38,773 00 less Sales Tax included in Tender
Aug. 20	St. Thomas, Ontario Hospital	Plumbing in Pavilions 1, 3 and 5	Purdy, Mansell, Limited, Toronto	29,162 00 less Sales Tax
Aug. 20	St. Thomas, Ontario Hospital	Heating in Pavilions 1, 3 and 5	George C. Abbott Limited, Toronto	50,343 00 less Sales Tax
Aug. 19	St. Thomas, Ontario Hospital	Laying Water and Sewer Mains	Carroll-Sharp Construction Co. Ltd., Toronto	12,739 00 less Sales Tax
Aug. 27	St. Thomas, Ontario Hospital	Installation of Boilers and Stokers	E. Leonard & Sons Limited, London	50,918 00 less Sales Tax
Sept. 7	St. Thomas, Ontario Hospital	Supply and Supervision of Cut Stone	Pigott Construction Co. Ltd., Hamilton.	273,840 00
Aug. 20	Brantford, Ontario School for the Blind	Supply and installation of Laundry Machinery	Beaver Laundry Machinery Co. Ltd., Toronto	3,525 00
Aug. 20	Brantford, Ontario School for the Blind	Supply and installation of Laundry Machinery	Canadian Laundry Machinery Co. Ltd., Toronto	2,297 00 less Sales Tax
Aug. 26	Vineland, Horticultural Experiment Station	Supply and installation of two Iron Fireman Automatic Coal Stokers	Goodram Bros, Hamilton	3,267 60 less Sales Tax

Sept. 7	Penetanguishene, Ontario Hospital	Supply, delivery and erection of Laundry Machinery	Canadian Laundry Machinery Co. Ltd., Toronto	4,360 00
Sept. 7	Belleville, Ontario School for the Deaf.	Supply and erection of Laundry Machinery	Beaver Laundry Machinery Co. Ltd., Toronto	3,365 00
Sept. 9	Kingston, Ontario Hospital	Supply and installation of Livingston Underfeed Stokers	Livingston Stoker Co. Ltd., Hamilton	5,250 00
Sept. 10	St. Thomas, Ontario Hospital	Supply and erection of Water Pumps and Motors	Babcock-Wilcox & Goldie-McCulloch, Ltd., Toronto	6,782 00
Sept. 17	St. Thomas, Ontario Hospital	Plumbing Pavilions 2, 4 and 6	Eggett & Company, London	28,452 50 less Sales Tax
Sept. 22	St. Thomas, Ontario Hospital	Heating Pavilions 2, 4 and 6	Bennett & Wright Limited, Toronto	50,343 00 less Sales Tax
Sept. 22	Mimico, Ontario Hospital	Erection of Brick Chimney	Francis Hankin & Co. Ltd., Toronto	2,477 00 less Sales Tax
Sept. 22	Orillia, Ontario Hospital	Additions and Alterations	Bennett-Pratt, Limited, Toronto	55,950 00 less Sales Tax
Sept. 23	Mimico, Ontario Hospital	Erection of Power House	Teagle & Son, Toronto	35,442 00 less Sales Tax
Sept. 30	Mimico, Ontario Hospital	Installation of Boilers, Stokers, etc.	E. Leonard & Sons, Ltd., London	52,214 00 less Sales Tax
Oct. 1	Woodstock, Ontario Hospital	Construction of Children's Annex Buildings	The Frid Construction Co. Ltd., Hamilton	577,427 00 less Sales Tax
Oct. 18	Brampton, Ontario Hospital	Construction of Administration Building	The Goldie Construction Co. Ltd., Toronto	63,280 00 less Sales Tax
Oct. 20	St. Thomas, Ontario Hospital	Construction of Central Dining Hall, Infirmaries and Connecting Passageways	Pigott Construction Co. Ltd., Hamilton.	1,037,800 00 less Sales Tax
Nov. 2	Port Arthur, Ontario Hospital	Construction of Administration Building	Joseph Tocheri, Port Arthur	84,500 00 less Sales Tax
Nov. 2	Orillia, Ontario Hospital	Plumbing in Alterations and Additions; Heating in Alterations and Additions	B. J. Miller & Co. Ltd., Toronto	3,428 00 4,496 00 less Sales Tax
Nov. 2	Orillia, Ontario Hospital	Electrical Work in Alterations and Additions.	Ontario Electrical Construction Co. Ltd., Toronto	3,445 00 less Sales Tax

Date	Work	Subject of Contract	Contractors	Amount
Nov. 2	Woodstock, Ontario Hospital	Electrical Work in Children's Annex Buildings	Canadian Comstock Limited, Toronto	3,525 00 less Sales Tax
Nov. 2	Brampton, Ontario Hospital	Electrical Work	Moss Electric Company, Toronto	2,970 00 less Sales Tax
Nov. 8	Brampton, Ontario Hospital	Heating and Ventilating System	George C. Abbott Limited, Toronto	5,691 00 less Sales Tax
Nov. 8	Brampton, Ontario Hospital	Plumbing	C. R. Muckert, Georgetown	4,075 36 less Sales Tax
Nov. 8	Port Arthur, Ontario Hospital	Plumbing and Heating Work	Summers & Darling Co. Ltd., Fort William	4,167 00 3,422 00 less Sales Tax
Oct. 22	Mimico, Ontario Hospital	Installation of Coal Handling Equipment in Power House	United Steel Corporation Ltd., Toronto.	9,220 00
Nov. 9	St. Thomas, Ontario Hospital	Passenger Elevators in Patients' Pavilions	Otis Fensom Elevator Co. Ltd., Toronto	36,820 00 less Sales Tax
Nov. 24	St. Thomas, Ontario Hospital	Plumbing for Dining Hall, Infirmaries, etc.	Goodram Bros, Hamilton	80,000 00 less Sales Tax
Nov. 24	St. Thomas, Ontario Hospital	Heating and Ventilating for Dining Hall, Infirmaries, etc.	Robert Rankin & Sons, St. Thomas	96,400 00 less Sales Tax
Nov. 24	Woodstock, Ontario Hospital	Plumbing, Children's Unit Buildings	Adam Clark Limited, Hamilton	70,164 00 less Sales Tax
Nov. 24	Woodstock, Ontario Hospital	Heating, Children's Unit Buildings	Adam Clark Limited, Hamilton	65,320 00 less Sales Tax
Nov. 24	Mimico, Ontario Hospital	Electrical Work, New Power House	Canadian Comstock Limited, Toronto	4,180 00 less Sales Tax
Nov. 27	Mimico, Ontario Hospital	Plumbing for New Power House	Purdy, Mansell, Limited, Toronto	3,350 00 less Sales Tax
Nov. 29	Woodstock, Ontario Hospital	Laying Drains, for Children's Unit Buildings.	Sterling Construction Co. Ltd., Windsor	28,819 00
Nov. 30	Sault Ste. Marie, Ontario Savings Office	Alterations	Brechin & Haney, Sault Ste. Marie	7,745 00 less Sales Tax

Dec. 13	St. Thomas, Ontario Hospital	Installation of Sewers and Drains	Carroll-Sharp Construction Co. Ltd., Toronto	46,949 00 less Sales Tax
Dec. 13	St. Thomas, Ontario Hospital	Electrical Work in Dining Hall, Infirmaries, etc.	Canada Electric Co. Ltd., Toronto	28,795 00 less Sales Tax
Dec. 17	Mimico, Ontario Hospital	Construction of Pipe Trench	Teagle & Son, Toronto	13,945 00 less Sales Tax
1938 Jan. 20	St. Thomas, Ontario Hospital	Radial Brick Chimney	Francis Hankin & Co. Ltd., Toronto	6,593 00 less Sales Tax
Jan. 20	St. Thomas, Ontario Hospital	Supply and erection of Steel Water Tower	Horton Steel Works, Limited, Toronto.	16,150 00 less Sales Tax
Jan. 10	Brampton, Ontario Hospital	Construction of Sewers and Drains	Mohan Construction Co. Ltd., Toronto.	16,700 00 less Sales Tax
Jan. 20	St. Thomas, Ontario Hospital	Construction of Power House	Pigott Construction Co. Ltd., Hamilton.	174,500 00 less Sales Tax
Jan. 20	St. Thomas, Ontario Hospital	Piping, Plumbing and Drainage for Power House	B. J. Miller & Co. Ltd., Toronto	70,936 00 less Sales Tax
Jan. 20	St. Thomas, Ontario Hospital	Electrical Work in Power House	Canada Electric Co. Ltd., Toronto	9,437 00 less Sales Tax
Jan. 21	St. Thomas, Ontario Hospital	Coal and Ash Handling Equipment, including Platforms	Stephens-Adamson Mfg. Co. of Canada Ltd., Belleville	30,941 52 less Sales Tax

DIGBY HORRELL,
Secretary and Purchasing Agent.

STATEMENTS

OF THE

Accountant of Public Works

1937-1938

Department of Public Works, Ontario,
Toronto, June, 2nd, 1938.

HONOURABLE COLIN A. CAMPBELL,
Minister of Public Works.

Sir:—

I have the honour to submit detailed statements of Ordinary Expenditure of Civil Government and Maintenance and Repairs Government Buildings; also Capital Expenditure on Provincial Public Buildings, during the fiscal year which ended on the 31st of March, 1938.

I have the honour to be, Sir,

Your obedient servant,

C. KENTLETON,
Accountant Public Works.

SUMMARY OF EXPENDITURE

FOR FISCAL YEAR APRIL 1st, 1937, TO MARCH 31st, 1938

Service	Ordinary	Capital	Total
Main Office—Administration expenses, etc.	$ 108.768 37		$ 108,768 37
Maintenance and repairs. Government Buildings	625.596 82		625,596 82
Public Buildings		2,009.103 58	2,009,103 58
Special Warrants:—			
Comfort Station, Port Burwell		5.144 63	5,144 63
Stock Judging Pavilion, Ridgetown		3.423 36	3,423 36
TOTAL NET EXPENDITURE	$ 734.365 19	$2.017,671 57	$2,752.036 76

STATEMENT OF REVENUE

MAIN OFFICE:

	Ordinary	Capital	Total
Commission on telegraphs and telephones	$ 3.453 07		$ 3,453 07
Sale of material	3.586 76	1,550 00	5,136 76
Sale of property		149,224 62	149,224 62
Building equipment	188 10		188 10
Refunds — Miscellaneous	242 61		242 61
TOTAL NET REVENUE	$ 7.470 54	$ 150.774 62	$ 158.245 16

C. KENTLETON,
Accountant.

Toronto, June 2nd. 1938.

STATEMENT OF EXPENDITURE, MAIN OFFICE, MAINTENANCE. REPAIRS AND CONSTRUCTION OF PUBLIC BUILDINGS FOR FISCAL YEAR ENDING MARCH 31st. 1938

ORDINARY

Service	Amount	Amount
MAIN OFFICE:		
Salaries—Minister's salary	$ 3,726 03	
Salaries—Permanent	69.977 89	
Maintenance	8,040 23	
Travelling expenses	1,902 60	
Insurance and lightning rods	24,000 00	
Local Improvement taxes	671 62	
Unforeseen and unprovided	450 00	
		$ 108,768 37
GENERAL SUPERINTENDENCE:		
Salaries—Permanent	$ 21,726 52	
Services, travelling and other expenses	6.268 39	
		27,994 91
GOVERNMENT HOUSE:		
Salaries—Permanent	$ 8.375 57	
Pay List—Gardeners, Firemen and other help	3.904 80	
Water, fuel. light and power	3.815 80	
Repairs, contingencies	6,672 04	
Furniture and furnishings	947 06	
Uniforms for Messengers. Gardeners. etc.	343 00	
Telephone service	546 61	
	$ 24,604 88	
Deduct—Perquisite	486 00	
		24,118 88

LEGISLATIVE AND DEPARTMENTAL BUILDINGS:			
Salaries—Permanent		$ 106,282 44	
Water and fuel		28,169 69	
Electric power and light current and gas		22,072 09	
Cleaning of buildings, upkeep and development of grounds		129,234 90	
Maintenance, repairs and alterations		103,023 59	
Furniture and furnishings and equipment for buildings		4,845 63	
Telephone service		36,239 97	
Fire protection		21 03	
Rental of property and office space		305 00	
Typewriter inspection and repairs		3,452 77	
Sewage Experimental Station, Toronto, repairs		53 93	
454 University Avenue, Toronto, repairs and incidentals		407 28	
		$ 434,108 32	
Deduct—Rentals	$ 41,820 25		
" Perquisites	1,260 00		
		43,080 25	
			391,028 07
OSGOODE HALL:			
Salaries—Permanent		$ 6,650 00	
Fuel, light, water and power		5,443 49	
Furniture, furnishings and equipment		1,029 73	
Telephone service		2,876 07	
Cleaning of building and incidentals		11,089 44	
Fire protection		5 00	
General repairs and alterations		9,148 91	
		$ 36,242 64	
Deduct—Perquisite		606 00	
			35,636 64
EDUCATIONAL BUILDINGS:			
Normal and Model Schools:			
Toronto: Repairs and incidentals		$ 4,964 21	
Ottawa: Repairs and incidentals		3,129 77	
London: Repairs and incidentals		1,922 27	
Hamilton: Repairs and incidentals		1,376 39	
Peterborough: Repairs and incidentals		616 68	
Stratford: Repairs and incidentals		1,132 85	
North Bay: Repairs and incidentals		1,754 83	
Belleville School for the Deaf:			
Repairs and incidentals		10,662 35	
Brantford School for the Blind:			
Repairs and incidentals		5,242 55	
Northern Academy, Monteith:			
Repairs and incidentals		3 72	
Ontario Training School for Technical Teachers, Hamilton:			
Repairs and incidentals		1,554 05	
General:			
Repairs and incidentals to boilers, etc.		20,103 75	
			52,463 42
AGRICULTURAL BUILDINGS:			
Ontario Agricultural College, Guelph:			
Repairs and incidentals		$ 6,929 37	
Ontario Veterinary College, Guelph:			
Repairs and incidentals		410 00	
Horticultural Experimental Station, Vineland:			
Repairs and incidentals		866 71	
Western Ontario Experimental Farm, Ridgetown:			
Repairs and incidentals		459 83	
Agricultural School, Ridgetown:			
Repairs and incidentals		328 82	
Eastern Dairy School, Kingston:			
Repairs and incidentals		338 31	
Agricultural School, Kemptville:			
Repairs and incidentals		3,122 18	
General:			
Repairs and incidentals to boilers, etc.		3,231 55	
			15,686 77

WELFARE BUILDINGS:

Ontario Training School for Boys, Bowmanville:		
Repairs and incidentals	$ 173 35	
Ontario Training School for Girls, Galt:		
Repairs and incidentals	266 99	
General:		
Repairs and incidentals to boilers, etc.	121 60	
		561 94

DISTRICT BUILDINGS:

Algoma: Repairs and alterations, furniture and furnishings and improvements to grounds to all District Buildings	$ 5.011 74	
Cochrane: Repairs and alterations, etc.	507 87	
Kenora: Repairs and alterations, etc.	1,484 83	
Manitoulin: Repairs and alterations, etc.	1,802 99	
Muskoka: Repairs and alterations, etc.	3,236 25	
Nipissing: Repairs and alterations, etc.	5,922 70	
Parry Sound: Repairs and alterations, etc.	1,032 98	
Rainy River: Repairs and alterations, etc.	255 95	
Sudbury: Repairs and alterations, etc.	4.162 63	
Thunder Bay: Repairs and alterations, etc.	2,334 83	
Temiskaming: Repairs and alterations, etc.	4,072 80	
" Salary of Caretaker	752 90	
General: To provide for repairs, installation of boilers and heating plants in Districts and fire protection	1.037 11	
		31,615 58

ONTARIO HOSPITALS:

Brockville: Repairs and incidentals	$ 3,418 28	
Cobourg: Repairs and incidentals	1.150 59	
Hamilton: Repairs and incidentals	5.630 31	
Kingston: Repairs and incidentals	4,583 86	
London: Repairs and incidentals	4,313 32	
New Toronto: Repairs and incidentals	2.838 77	
Orillia: Repairs and incidentals	5,905 08	
Penetanguishene: Repairs and incidentals	7.580 58	
Toronto, Repairs and incidentals	1,750 36	
Psychiatric, Toronto: Repairs and incidentals	778 58	
Whitby: Repairs and incidentals	2,872 56	
Woodstock: Repairs and incidentals	3,770 70	
Fort William: Repairs and incidentals	592 34	
Concord: Repairs and incidentals	1,305 28	
		46,490 61
TOTAL ORDINARY EXPENDITURE		$ 734.365 19

CAPITAL

PUBLIC BUILDINGS:

Legislative and Departmental Buildings:		
To provide additional accommodation		$ 641 35

EDUCATIONAL BUILDINGS:

Brantford School for the Blind:		
Additions and alterations, including fireproofing		10,888 10

WELFARE BUILDINGS:

Ontario Training School for Boys, Bowmanville:		
Construction of new building, furniture and furnishings and expenses in connection therewith	$ 12,000 36	
Ontario Training School for Girls, Galt :		
Construction of new building, furniture and furnishings and expenses in connection therewith	54.490 32	
		66,490 68

ONTARIO HOSPITALS AND REFORMATORIES:

Brockville:		
Additions, improvements, equipment and fireproofing	$ 2.760 60	
Hamilton:		
New Nurses' Residence, furniture and furnishings and expenses in connection therewith	5.206 40	
New Reception Building, furniture and furnishings and expenses in connection therewith	12,768 55	
Kingston:		
Additions, improvements, equipment and fireproofing	10.723 86	
London:		
Addition, improvements, equipment, etc.	2.484 80	
New Toronto:		
Additions, improvements, equipment, etc.	52.803 28	
Orillia:		
Additions, improvements, equipment, etc.	70.328 26	
Penetanguishene:		
Additions, improvements, equipment, etc.	18.506 80	
Woodstock:		
To provide for construction of new Children's Unit and expenses in connection therewith, including purchase of property	160.937 21	
Additions, improvements, equipment, etc.	3.340 95	
New Units:		
For purchase of property construction of buildings, furniture and furnishings, and other expenses	1,525.857 77	
Ontario Reformatory, Guelph:		
Additions, alterations, etc.	62.782 97	
		1.928,501 45

DISTRICT BUILDINGS:

Thunder Bay:		
New Lock-up, Geraldton	$ 28 50	
		$ 28 50

SPECIAL WARRANTS:

Comfort Station, Port Burwell	5,144 63
Stock Judging Pavilion, Ridgetown	3,423 36
TOTAL	$2.015,118 07

MISCELLANEOUS REFUNDS:

Refunds of Deposits with tenders	2,553 50
TOTAL CAPITAL EXPENDITURE	$2.017.671 57

SUMMARY

ORDINARY EXPENDITURE:

Main Office and Maintenance and Repairs of Government Buildings	$ 734,365 19

CAPITAL EXPENDITURE:

Public Buildings	2.017,671 57
	$2,752,036 76

Thirty-First Annual Report

OF THE

Game and Fisheries Department

1937-1938

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 9, 1939

ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1939

TO THE HONOURABLE ALBERT MATTHEWS,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirty-first Annual Report of the Game and Fisheries Department of this Province, for the year ended March 31st, 1938.

I have the honour to be,

Your Honour's most obedient servant,

H. C. NIXON,
Minister in Charge,
Department of Game and Fisheries

Toronto, 1939.

THIRTY-FIRST ANNUAL REPORT

OF THE

Game and Fisheries Department of Ontario

TO: THE HONOURABLE H. C. NIXON,
Minister in charge,
Department of Game and Fisheries.

SIR:—

I have the honour to submit to you in this and the following pages the Thirty-first Annual Report of the Department of Game and Fisheries, outlining the activities of Departmental services and including statistical and comparative tables for the fiscal year ended March 31st, 1938.

INTRODUCTORY

The wild life of the Province of Ontario constitutes a resource of tremendous importance and value. It is a heritage of the Crown administered by this Department and the policies which govern the administration of this trust are based on the premise that every citizen has an equity in these resources.

The natural resources of any country are the basis of its national wealth and in evaluating the true worth of our wild life natural resources, it is pertinent to point out that these form a vital part of our economic structure. Analyzing these thoughts we find the following facts:

The fur trade of Canada is closely associated with the development of the country, for the trappers and fur buyers were pioneers in opening up the north and the west. In the Province of Ontario trapping is still more or less extensively carried on. During the year under review trappers in excess of sixty-five hundred were licensed and operating in Ontario, while fur dealers' license fees contributed $27,438.75 to Departmental revenues, which last fact indicates that the trapper is plentifully supplied with avenues for the disposal of his catch. During the same period royalty to the amount of $63,632.70 was paid to the Department on furs while the value to the trapper of his season's fur catch is estimated at $966,552.92. In addition to these figures it is pointed out that private fur farmers raised and disposed of 33,235 silver and black fox pelts, 233 cross fox pelts, and 24,864 mink pelts of an estimated value of $896,963.15.

It should be noted that in Northern Ontario where the lands are mostly still in the Crown, it is the policy to allot a separate area, consisting of a township or part of a township, to each trapper. While much of the north country is still unsurveyed it is hoped that in the very near future eighty per cent of the trappers will have their trap lines on a defined zone. Each trapper will then be responsible for taking care of the fur-bearing animals in his own area, because his future earnings will depend on his conservation of the supply within the zone.

The commercial fishing industry of the Province employed some 4,440 men during the year ending March 31st, 1938, and had approximately $3,277,701 invested in gear and equipment, while the sum of $2,644,163.49 was derived by these commercial fishermen from their operations.

From the economic standpoint, however, the greatest worth of our game and fish resources lies in their attraction to tourists. The seasonal influx of visitors from all parts of the world has developed into an industry of major importance and it is estimated that $117,029,099.00 was circulated by tourists in Ontario during the year under review. This Province has, of course, many attractions, but the lodestone which exercises the greatest drawing power is the excellent fishing to be had in our many lakes and streams. It will be apparent that the natural resources which are the backbone of such an important industry are of very real economic value.

Again, the importance of bird life as an aid to agriculture is beyond computation. Insect control is essential to crop success. Much of this burden is lifted from the shoulders of the farmers by the migratory and non-migratory birds which are a part of our wild life assets.

From the standpoint of the sportsman this wild life heritage has a recreational value which cannot be measured in terms of dollars and cents. Fishing and hunting are perhaps the very finest of the health-giving and recreational sports available to the people of this Province. The incentive which wild life provides for enjoying the great outdoors is of inestimable value in the development of character and good citizenship.

It is therefore obvious from the foregoing comments and observations that our wild life heritage is a trust of great economic and moral worth, and being a common heritage its preservation and wise use is the care of every resident within our borders. How this Department has administered this trust on behalf of the people of this Province during the period under review is detailed in these pages for the information of all concerned.

FINANCIAL

ORDINARY REVENUE FOR FISCAL YEAR ENDING MARCH 31st, 1938.

ORDINARY—		
MAIN OFFICE—		
GAME—		
Licenses—		
Trapping	$ 29,167.60	
Non-resident Hunting	92,370.00	
Deer	72,320.10	
Moose	3,179.00	
Gun	77,780.81	
Dog	4,636.10	
Fur Dealers	27,438.75	
Fur Farmers	8,737.50	
Tanners	140.00	
Cold Storage	157.00	
	$ 315,926.86	
Royalty	63,632.70	$ 379,559.56
FISHERIES—		
Licenses—		
Fishing	$ 103,408.66	
Angling	331,430.45	
	$ 434,839.11	
Sales — Spawn taking	72.70	
Royalty	10,849.95	$ 445,761.76

GENERAL—		
Licenses—		
Tourist Outfitters	$ 5,790.00	
Guides	7,782.00	
	$ 13,572.00	
Fines	11,561.50	
Costs	664.62	
Sales — Confiscated articles	10,683.74	
Rent	3,229.00	
Commission	1,959.63	
Miscellaneous	231.00	
		$ 41,901.49
		$ 867,222.81
EXPERIMENTAL FUR FARM—		
Sales — Pelts		1,258.08
Gross Ordinary Revenue		$ 868,480.89
DEDUCT—		
Revenue applied in reduction of Expenditures—		
Main Office — Costs	$ 664.62	
Experimental Fur Farm — Sale of Pelts	1,258.08	
		1,922.70
Net Ordinary Revenue		$ 866,558.19

Again I am privileged to report an increase in the amount of the total ordinary revenue which was collected by this department during the year under review. The total figure of $866,558.19 is the largest yet produced in any one fiscal year, and is $84,340.56 in excess of the previous high total, viz:— that of $782,217.63 collected in 1936-37.

This increase is attributable principally to the larger revenue derived from the sale of non-resident angling and hunting licenses in 1937-38 as compared with the figures for 1936-37. The sale of such angling licenses in 1936-37 produced $272,690.50 as compared with a total of $331,430.45 from a similar source in 1937-38, an increase of practically sixty thousand dollars. This is an interesting and encouraging sign. The tourist is evidently finding out what the resident fisherman already knows, that as a result of the energetic restocking of the past few years, Ontario waters keep on improving, despite the intensity with which they are being fished. The economic possibilities of this seasonal business loom larger than ever before, and we believe the people of the Province are becoming increasingly conscious of the necessity for conserving and continually renewing the fish and game resources which add so much to the attractiveness of this Province as a vacation resort. From the sale of non-resident hunting licenses in 1937-38 we derived $18,432.50 in excess of the revenue derived from that source in the previous fiscal year, so that of the total increase of $84,340.56 to which previous reference has been made, the sum of $77,172.45 was due to the increased sale of various non-resident hunting and angling licenses.

Revenue exceeded expenditure, both ordinary and capital, by $302,619.86. Ordinary expenditures totalled $513,383.80, some of the principal items of this expenditure being $212,038.54 on the work of enforcing provisions of the Game and Fisheries Act, and $166,939.91 on Fish Hatchery Service. Other items of ordinary expenditure include $10,662.43 spent in connection with the propagation of game birds and animals and $4,182.98 at the Experimental Fur Farm at Kirkfield (Victoria County). Expenditures in connection with the payment of wolf bounties totalled $27,474.24, while grants to various individuals and organizations amounted to $8,400.00. The total amount paid out for capital expenditures was $50,554.53, the greater proportion of which amount was spent on projects which were necessary in connection with the expansion of our fish culture services. Some of the principal items were as follows:—Manitoulin Bass Ponds, $12,911.92; North Bay Trout Rearing Station, $15,811.04; and White Lake (additional ponds), $12,465.33.

GAME

The comparative table which follows will show in detail the various hunting licenses, both resident and non-resident, which were issued during the year under review, and such figures for the three previous years. While reference has already been made to the increased revenue derived in 1937-38 from the sale of non-resident hunting licenses, it will be of interest to state that the revenue derived from the sale of resident hunting licenses—deer, moose and gun,—in 1937-38 was in excess of that collected from the same sources in the previous year by the sum of $19,419.65.

	1934	1935-36	1936-37	1937-38
Resident Moose	512	496	542	580
Resident Deer	12,890	14,779	15,394	18,672
Resident Deer (Camp)	175	258	262	283
Resident Deer (Farmers)	4,902	5,221	5,386	6,503
Resident Gun	76,210	85,884	79,531	90,756
Non-resident Small Game	489	686	1,129	1,634
Non-resident Deer	475	652	848	1,036
Non-resident "General"	457	680	878	1,043

The sportsman to-day is not so much interested in the kill as in the chase, although his pleasure is increased when his efforts are rewarded. Meat, however, is not the primary consideration. Health and "the pursuit of happiness" are the lures which beckon the good sportsman from the artificialities of life to the soothing influence and restful atmosphere of nature. Wild life is but a means to an end, an incentive to physical and mental relaxation.

The following pages contain a summary of conditions as they apply to the game life of the province,—both animal and bird, and which information is compiled from reports submitted by the various members of the field service staff of the Department:—

DEER:—This particularly fine species of game animal continues to be fairly plentiful in various sections of the Province and while the hunting of these animals during the regular open season supplies an exhilarating brand of recreation for the interested sportsman there is no doubt, notwithstanding the fact that there was provision for some minor moderation of the regulations which had previously applied to restrict the taking of does and fawns, that the preservation and possible improvement of the existing deer herds depends very largely upon the protection which the existing provisions of the Game and Fisheries Act provide and the observance of such restrictions by all concerned.

Reports submitted by members of the Field Service staff indicate that so far as the northern and northwestern portions of the Province are concerned generally speaking conditions are quite favourable, though there are various scattered sections throughout this region where such is not the case. The northern districts in the southern portion of the Province continue to attract the majority of hunters seeking deer, and it would appear that these animals are still sufficiently plentiful and showing some increase in numbers in some sections of these areas, i.e. Parry Sound, Muskoka, Haliburton, Renfrew and the northern portions of Victoria, Peterborough, Hastings, Addington, Frontenac and Lanark, to warrant the belief that this branch of sporting activity will long be available here. In the Counties included in the southwestern peninsula and in certain eastern counties there has been an entire close season on deer for the past several years, and even though these particular counties represent the most settled portions of the entire Province we are able to state that the complete protection which prevails here is resulting in the number of deer increasing in most of these counties. This has been particularly the case in the counties of Bruce and Grey where conditions have been so favourable as to warrant the Department providing a short open season there.

The open season for deer during the year reported on was a highly successful one. Reports to the Department from sportsmen and overseers indicated that as a general rule deer were more numerous in certain sections than was the case in the previous season. While this may in some measure be attributable to a natural movement of the herd, it is reasonable to assume that the comparatively mild winters of the past two years, together with the protective measures in force have resulted in increased reproduction. We are referring, of course, to those areas in which hunting was legal. The Department's Inspector, who was stationed at a strategic point on the highway to check hunters on their return from the north, reported that the consensus of opinion was that there were more deer seen than ever before. A Deputy Game Warden with whom we were discussing the hunt said,—"I have been hunting deer for seventeen years and never saw them so thick as they were this year." Such reports are encouraging, indicating as they do that the deer herd, with a reasonable measure of protection, is capable of replenishing itself despite natural and unnatural enemies.

MOOSE:—This splendid monarch of the Ontario forest is to be found only in the northern portion of the Province though scattered specimens are to be found in Muskoka, Parry Sound, Renfrew and in the sections immediately to the south of Algonquin Provincial Park. Nowhere in Ontario are they plentiful and there is no doubt that the various regulations which exist for the protection of these magnificent animals are absolutely necessary for the welfare of this species. It is only in a few sections that their numbers are reported to be even fairly plentiful, and nowhere has any decided improvement in numbers been observed.

CARIBOU:—These animals are extremely scarce and are reported only from the Districts of Rainy River, Kenora and Thunder Bay, also from the northern portions of Algoma and Cochrane. Some slight increase has been observed in the eastern portion of Thunder Bay and in the Chapleau Game Preserve, which is located in the Districts of Sudbury and Algoma.

ELK:—As has been outlined in previous reports the elk which are to be found in Ontario at present are those which were imported to the Province from Western Canada, and their progeny. The original shipments were made with the approval and co-operation of the Dominion National Parks Branch, and on arrival here were placed on the following Crown Game Preserves, viz:—Pembroke, Burwash, Chapleau, Nipigon-Onaman and Goulais River-Ranger Lake.

There has been some improvement in practically all instances save one,—those liberated on the Nipigon-Onaman Crown Game Preserve. Elk from the herd at Pembroke have been placed in Algonquin Park and on the Bruce Peninsula, while some animals from the herd at Burwash were liberated in territory immediately adjacent thereto. It is reported that their numbers have increased in the Chapleau and Burwash Game Preserves and also on the Bruce Peninsula, while some of these animals have been observed on Beausoleil Island in Georgian Bay off Simcoe County.

BEAR:—These animals are both hunted and trapped but not very extensively, though there is an indication that increasing numbers of non-resident hunters are becoming interested in the spring hunt which has been provided during the months of April and May. They are available in varying numbers throughout the entire northern portion of the Province and are reported to be quite plentiful in many sections, and to a lesser extent in Parry Sound, Muskoka, Haliburton, Renfrew and the northern part of Hastings County.

RABBITS:—Rabbits continue to provide many opportunities which are favourable from the sportsman's point of view, and more particularly is this so in the southern counties. In this section of the Province cotton-tail rabbits are available in satisfactory numbers, while the jack rabbit (European Hare) is pretty well confined to the western counties though this species is slowly extending its numbers to the east and north. In northern Ontario snow shoe rabbits are the prevailing species and although they are reported to be quite scarce there are indications of improvement in some districts.

Rabbit hunting is a favourable activity of Ontario sportsmen during the fall and winter months. The "jack" is probably the most popular of the species because of its size and the open country it inhabits. Its long and powerful legs propel it at tremendous speed and the difficulty of hitting such a fast moving target intensifies the pleasure of the hunt. The "jack" does not readily capitulate. It has power and stamina which provide an excellent defense against all but the most experienced. The varying hare or snowshoe rabbit on the other hand has quite a burst of speed, but lacks the reserve power and physical courage of the "jack". It succumbs readily.

The cotton tail and the hare are in about the same class from the sporting standpoint, although the former provides a measure of additional sport to those who enjoy hunting with ferrets.

Hunters should realize that there is just as much danger of exterminating the rabbit through needless waste as any other species of game. This is particularly true in the more populous areas, where hunting is heavy and habitat restricted. Game which provides such healthy outdoor recreation at a minimum of expense is worth conserving.

SQUIRREL (Black and Grey):—These animals are quite numerous in the southern counties and particularly is this applicable to the western portion. They were afforded the protection of an entire close season which in all probability contributed largely to the improvement evident in the numbers of these varieties of squirrel.

PARTRIDGE:—Conditions as they applied to the various species of this desirable game bird were not sufficiently favourable to justify any action along the lines of an open season.

The sharp-tailed grouse or prairie chicken is found only in the northwestern districts and while scarce they showed signs of some increase.

As far as ruffed grouse are concerned, these birds exist throughout the Province, though their numbers are, of course, quite limited in the more settled sections. However, as previously stated in no section were they in any way numerous though reports received by the Department advised that improvement was noticeable principally in Northern Ontario and the northern districts and eastern counties of the southern part of the Province.

QUAIL:—These birds are found principally in the counties of Essex, Kent, Lambton and Middlesex, and in counties immediately adjacent to the eastern boundaries thereof, and in which section they are fairly plentiful. Scattered bevies of quail are reported also in some eastern counties, that is Stormont, Dundas and Glengarry.

PHEASANT:—During the year reported upon the Department intensified its pheasant re-stocking activities insofar as they applied to live birds, with the result that the distribution of eggs was to that extent curtailed. Departmental records reveal the fact that only 303 settings, or 4,545 eggs, were distributed to interested applicants, while live pheasants numbering 5,076 in all were liberated in suitable areas, 4,703 of which birds were placed in various Regulated Game Preserve areas, a scheme of protected areas inaugurated during the year, and to which scheme detailed reference is made later on in this Report.

The following references concerning the earlier efforts in connection with the re-stocking of pheasants will probably be of sufficient interest to warrant inclusion in this Report.

It seems rather a hopeless task to definitely determine the time and circumstances when the English ring-necked pheasant was first introduced into this Province. The only official record to be found is in the published reports for the Department. It is strange that while reference is made in some of them to conditions, no information is included as to when they were planted or by whom. The first reference found is in a report of the Ontario Game and Fish Commissioners for 1895, and concerns Mongolian and English pheasants, viz:—

"There is an increasing feeling among sportsmen that further and greater efforts must be made in the near future looking towards the restocking of game covers, and quail seems to be the only bird which offers a fair compensation for the outlay of time and money. As is well known, none of the other native birds admit of propagation so that restocking with them is out of the question. Some ardent sportsmen have introduced the Mongolian pheasant and also the English pheasant but sufficient time has not yet elapsed in which to test the success of the experiment."

The report of the same organization for 1896 mentions the fact that a number of English pheasants, about 120, were reared at Rondeau during the year.

And again in 1901:—"It has been suggested in consequence of the English pheasants that have been liberated on Point Pelee having done so well, that the Point should be made a preserve and no shooting or hunting at any time be allowed on the Point."

Finally,—reference is made to an open season, and the following is quoted from the Ontario Game and Fisheries Commission (Special Committee) Final Report, 1910,—"The open season for pheasants which was declared during the past year, resulted apparently in the satisfactory discovery that the birds were more plentiful than had been supposed, and most excellent sport would appear to have been enjoyed. Sufficient time, however, has not yet elapsed to enable a determination to be arrived at in regard to the advisability of repeating the experiment of an open season during 1911. Careful investigation should be made at this point by the proper authorities, for the pheasants in some localities have become so well acclimatized and are thriving to such an extent that it would be a grievous mistake to allow their numbers to become unduly diminished."

HUNGARIAN PARTRIDGE:—These birds are not very plentiful anywhere in the Province. So far as the north is concerned their numbers are negligible though evidence of their existence is reported from certain sections of Thunder Bay, Algoma and Temiskaming. They are most numerous in the very extreme southwestern counties, while reports indicate they are becoming more plentiful in some of the eastern counties. During the year 102 of these birds were distributed by the Department in selected areas.

DUCKS:—Generally speaking this species of migratory waterfowl provides quite a large proportion of the sport which is available to the hunter during any season, and the present restrictions which apply for their protection are providing a measure of conservation which will undoubtedly be beneficial and result in maintaining the supply for the enjoyment of sportsmen in future years. Reports from practically every section of the Province are quite favourable, though there are some areas in the north in which conditions are not too good.

GEESE:—There are not many areas in Ontario in which these birds may be successfully hunted, and while they are observed in flight during the fall and spring migrations in numerous sections the conditions which prevail during these migrations are such that during the open season which is provided any hunting which is available is pretty well restricted to the James Bay shore in the far north, and to a few of the extreme southwestern counties.

WOODCOCK:—This species is extremely scarce in Northern Ontario, and is none too plentiful in the southern portion of the Province. From reports to the Department it is apparent that most favourable locations are in some of the counties along the north shore of Lake Erie.

SNIPE:—As in the case of the woodcock, snipe are extremely scarce in the northern districts. They are reported to be somewhat plentiful in a number of the eastern counties, and while some improvement was observed in scattered areas throughout the southern counties as a general rule their numbers are sufficient to provide nothing more than fair shooting.

PLOVER:—Continues to be very scarce in practically every section of the Province, and no improvement indicated by reports.

During the year under review Regulations were approved which provided for special open seasons, details of which are as follows:—

(a) Deer in that portion of Carleton County lying west of the Rideau River,—from November 5th to 20th, inclusive. General deer hunting regulations applied.

(b) Deer in the counties of Bruce and Grey,—from November 8th to 13th, inclusive. General deer hunting regulations applied except that the use of dogs was not permitted.

(c) Pheasants—Pelee Island, October 28th and 29th. Five birds per day. Special municipal license $3.

(d) Pheasants, quail and Hungarian Partridge,—The counties of Essex and Kent, October 28th and 29th. Three pheasants, three quail and two Hungarian Partridge per day.

(e) Pheasants,—in the following Townships, which were established as Regulated Game Preserve Areas, viz:—Markham, Nelson, Trafalgar, Flamborough, E., Beverley, Ancaster, Saltfleet, Binbrook, Barton, Humberstone, Canborough, Dunn, Cayuga North, Cayuga South, Oneida and Seneca, October 28th and 29th. Three birds per day. Special municipal license $1. per day.

(f) Pheasants,—in the following Townships, which were established as Regulated Game Preserve Areas, viz:—Grimsby North, Clinton, Louth, Grantham, Niagara, Caistor, Willoughby and Bertie, October 28th. Three birds per day. Special municipal license $1.00.

FUR BEARERS

Conditions as they apply to fur bearing animals throughout the Province are set forth in the following references, as summarized from reports of the Field Service staff to the Department:—

BEAVER:—These animals had the protection of an entire close season, though it was found necessary to open the season on Manitoulin Island for the first fifteen days of November. Trapping of these animals under the regulations which prevailed restricted such operations to trappers and farmers actually resident on Manitoulin, limited the catch of each person to not more than ten beaver, and required that pelts so taken be disposed of under supervision of the Department. The close season which has been in effect has resulted in a noticeable increase in the numbers of these animals practically throughout the entire Province.

FISHER:—This species is extremely scarce throughout the Province and few if any are taken anywhere south of the French and Mattawa Rivers.

FOX:—Conditions remained pretty much the same in the various sections in which these animals have been found, with improvement and decreasing numbers reported from different districts. There was unquestionably no general increase, which would appear to be supported by the fact that there was quite a noticeable decrease in the numbers of the various species of fox taken during the season. Silver fox now are very seldom taken in the wild.

LYNX:—This species also is extremely scarce everywhere in the Province, and while the pelt is one of the most valuable of those taken in the wild the trapper does not derive much of his revenue therefrom.

MARTEN:—Very scarce, and while there was an increase in the number of pelts taken during the season, such increase should not be regarded as an indication of any permanent or general improvement.

MINK:—There would appear to be no doubt that this species is becoming less numerous in many areas. There were few sections in which conditions were favourable or any improvement observed.

MUSKRAT:—Conditions in Northern Ontario particularly were not at all good, and while there were some sections in Southern Ontario from which favourable reports were received, generally speaking conditions here were only comparatively fair. The decline in the annual catch which has now been progressing over a number of years continued during the season reported upon.

OTTER:—These animals are to be found chiefly in Northern Ontario, and even there they are not particularly numerous. Conditions remained about the same as is indicated by the annual take. While continuing scarce some improvement was reported in scattered areas.

RACCOON:—This species does not inhabit the north. General conditions in southern Ontario remained about the same. They are not plentiful anywhere, and reports indicate that generally speaking their numbers are possibly decreasing to some extent.

SKUNK:—While these animals were reported to be very plentiful throughout the entire Province there was quite an extensive decrease in the number taken by trappers during the season.

WEASEL:—This species continues to be very plentiful in every portion of the Province, with the possible exception of certain counties in the southwestern peninsula. The catch was about the same as in the previous year.

There can be no question as to the necessity of the present restrictions which are provided by the Game and Fisheries Act as a means of protecting existing fur bearing animals in this Province, and while in some particular instances these regulations may appear to be unnecessary appearances of such a nature are deceptive. As a general rule the more desirable species of fur bearers are diminishing in number, no doubt attributable for the most part to decreased suitable and available habitat as well as to the intensified trapping operations to which these animals have been subjected in past years. In Northern Ontario all the species of fur-bearing animals mentioned in this report are to be found in varying numbers while in Southern Ontario at the present time fur bearing animals would include fox, mink, muskrat, raccoon, skunk and weasel, and, to a lesser extent beaver and otter, the other species herein referred to being practically extinct in this section.

There is no doubt that the year under review was an extremely difficult one for the trapper, because as will be observed from the following comparative statement not only was there a considerable decrease in the number of pelts actually taken and disposed of but the prices which these pelts commanded on the open market were indeed quite low, and much below what has been recorded as average in more recent years.

This comparative table shows the numbers of pelts of the various species of fur bearing animals which were exported from or dressed within the Province, during the year under review as well as in the two years immediately preceding:—

	1935-36	1936-37	1937-38
Bear	411	476	496
Beaver	6,785	238	235
Fisher	2,137	2,117	1,463
Fox (cross)	5,424	4,156	2,426
Fox (red)	37,044	35,232	24,912
Fox (silver or black)	500	360	201
Fox (white)	883	17	47
Lynx	2,642	2,081	1,284
Marten	1,282	1,464	1,709
Mink	47,057	33,930	22,766
Muskrat	398,043	370,239	343,972
Otter	3,701	3,779	3,737
Raccoon	13,259	14,243	13,194
Skunk	50,747	87,950	61,576
Weasel	42,643	78,643	79,853
Wolverine	4	2	5
	613,057	635,203	557,876

Information compiled in the Department shows that these furs were worth to the trappers responsible for taking the same, the sum of $966,552.92, which is but little more than fifty per cent of the amount realized from such sales in the previous year.

To these figures should be added statistics as they apply to the product of licensed fur farms not subject to the payment of royalty, including silver, black and cross foxes and mink. Furs disposed of during the year by these fur farmers included 33,235 silver fox pelts worth $683,643.95, 26,480 of which were exported and the remaining 6,755 dressed in the Province; 24,864 mink pelts worth $209,852.16, 24,381 of which were exported and the remaining 483 dressed in the Province; and 233 cross fox pelts worth $3,467.04, 192 of which were exported and the remaining 41 dressed in the Province.

FUR FARMING

During the year there were 1,536 licenses issued to authorize fur farming operations. Of this number some 331 were new licenses. As compared with the previous year there was a net increase in the number of licensed fur farms under operation totalling 188. The records show that silver foxes were raised on 986 of these fur farms, cross foxes on 103 fur farms, red foxes on 133 fur farms, mink on 614 fur farms, and raccoon on 91 fur farms. There were 859 fur farms on which operations were confined to foxes, 451 fur farms on which only mink were raised, while on 38 fur farms only raccoon were propagated. On the remaining 188 fur farms operations were not limited to any one species.

The subjoined comparative table shows the total breeding stock retained on these licensed fur farms as on the first day of January in each of the years included therein:—

SUMMARY OF BREEDING STOCK ON LICENSED FUR FARMS AS AT JANUARY 1ST

	1936	1937	1938
Beaver	70	21	25
Fisher	16	20	16
Fox (cross)	367	257	235
Fox (red)	228	207	140
Fox (silver or black)	21,645	23,869	24,848
Fox (blue)	5	0	0
Lynx	2	2	2
Mink	12 332	15,539	21,982
Muskrat	375	351	302
Raccoon	524	358	351
Skunk	3	5	9
Bear	21	15	15
Marten	4	4	11

It will be observed that silver fox and mink represent by far the greater proportion of the activities which are carried on by the operators of these licensed fur farms, and though in each instance an increase is indicated, that in the case of mink far exceeded the increase in silver fox. The raising of mink is rapidly becoming an important branch of the fur farming industry. One can realize the truth of this statement when it is noted that the stock of mink maintained on these fur farms increased from 8,605 to 21,982 in a period of only three years.

CROWN GAME PRESERVES

One of the first measures taken to preserve the game in the Province of Ontario was the setting aside of large areas of land as Provincial Parks. In these Parks no hunting or trapping is permitted and the wild life is given a chance to increase and develop under natural conditions and without molestation from man. These protective areas proved so successful that the idea was extended and large areas of crown lands in Northern Ontario have been set aside for the same purpose under the Department of Game and Fisheries. These areas are known as Crown Game Preserves. At the present time there are 116 such Crown Game Preserves with an area of approximately 6,068,914 acres.

While the largest portion of this area is situated in Northern Ontario it has been possible to establish a number of preserve areas in the southern part of the Province with the co-operation of owners of private property. These areas will be primarily useful for the protection and propagation of upland game birds, although all species of desirable game will be protected.

It is generally acknowledged that where wild life is allowed to propagate with a minimum of human interference and in surroundings which provide natural food and cover there will in time be a return to the normal conditions set up by nature. This means not only increased game in the protected areas but a general improvement in conditions throughout the Province.

During the year five additional Crown Game Preserves were established in southwestern Ontario in accordance with the schedule appended hereto, and changes were made in the boundaries of the Jocko Crown Game Preserve in the District of Nipissing and in the Peasemarsh Crown Game Preserve, in the County of Grey.

Designation	County	Extent in Acres
Crosshill Crown Game Preserve	Waterloo	1,200
Highgate " " "	Kent	575
Long Branch " " "	Peel	450
Wainfleet " " "	Welland	5,000
Windham " " "	Norfolk	400

REGULATED GAME PRESERVE AREAS

The year saw a new development in the matter of the control of indiscriminate hunting. In line with the desire to provide better hunting and to maintain in large measure the privilege which sportsmen have enjoyed for generations of using private lands in the pursuit of game, arrangements were entered into between the Department and some twenty-seven Townships whereby hunting in these Townships would be restricted to certain open seasons for pheasants and rabbits, and that only those who had the necessary hunting license issued by the Municipality would be authorized to take advantage of the open dates. This had the effect of creating these areas as Regulated Game Preserves because of the fact that hunting was prohibited except on open dates as proclaimed on the recommendation of the Department. These open dates were limited to a two-day pheasant shoot and a seasonal period during the winter for rabbit hunting. It had an additional effect of preventing an influx of non-residents to the area because the number of special licenses issued was based on the number of available pheasants and only those with a pheasant license were permitted to partake in the rabbit hunting. The Municipality collected a small fee for the license. The Department stocked these areas with several thousand live birds and hopes to largely increase its pheasant production for the restocking of these Regulated Areas.

By concentrating the restocking of pheasants on these Regulated Areas, rather than scattering the available birds over a large section of Southern Ontario and thereby thinning the numbers in most counties below the point where hunting is desirable, it is believed a sufficient quantity of birds will be raised to warrant an open season. The bag limit which would apply during an open season would permit the taking of cock birds only. Continuous replenishment of the stock will be part of the plan so that an open season simply means a temporary reduction of the surplus stock. In other words protecting the hens will maintain an ever increasing brood stock and the surplus destroyed during a shoot will be replaced to take care of the next open season.

Several specific and important results are anticipated from this arrangement. First, and quite important, is the fact that the farmer will not be subject to the expense and inconvenience of having irresponsible hunters tramping over his lands and damaging property during the whole gun license season. It is well known that the actions of a few have brought about a feeling of animosity between the farmer and the sportsman, a situation which threatens to put an end to free hunting. Those who obtain a license during the open season will be readily identified, and abuse of the privilege will mean prosecution and cancellation of any future privileges. As the carrying of fire-arms for hunting purposes within such Regulated Areas is forbidden, except during such open seasons as may be prescribed and then only under the authority of a special license, it is hoped to eliminate practically all of the poaching which otherwise takes place.

It is pleasing to learn that the open seasons established in these Regulated Townships were quite successful and have done much to stay the epidemic of land posting which threatened so seriously to curtail the opportunity for hunting over private lands. It is not suggested, of course, that the present arrangements are perfect, experience will doubtless bring minor changes in control and regulation but the inauguration of such a scheme will, we believe, receive the approbation of every sportsman when its underlying benefits become better known.

The various townships which entered this scheme of Regulated Game Preserve Areas during the year are as follows:—

The Township of Markham, in York County;

The Townships of Nelson and Trafalgar, in Halton County;

The Townships of Flamborough East, Beverley, Ancaster, Saltfleet, Barton and Binbrook, in Wentworth County;

The Townships of Grimsby North, Clinton, Louth, Grantham, Niagara and Caistor, in Lincoln County;

The Townships of Stamford, Willoughby, Bertie and Humberstone, in Welland County;

The Townships of Canborough, Dunn, Cayuga South, Cayuga North, Oneida and Seneca, in Haldimand County.

Part of the Township of Westminister, in Middlesex County;

The Township of Bayham, in Elgin County.

WOLF BOUNTIES

The following is a comparative table of condensed wolf bounty statistics covering the last four fiscal years:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Oct. 31, 1934.	990	812	57	1,859	$27,080.65
For year ending Mar. 31, 1936.	1,159	1,713	33	2,905	42,399.89
For year ending Mar. 31, 1937.	1,090	1,197	31	2,318	33,360.63
For year ending Mar. 31, 1938.	1,022	837	30	1,889	27,474.24

During the year 1,380 claims for wolf bounty were paid in respect of 1,889 wolves as shown above, in addition to which 19 claims were disallowed for various reasons. Bounty was paid to 1,109 different persons, 735 of whom applied in connection with only one wolf each. Applicants submitting claims on two wolves numbered 179. The remainder of the applicants had claims for varying numbers, while the largest total bounty paid to any one person amounted to $210.

Details as to the sources of origin of the pelts submitted for bounty are set forth in the following table:—

REPORT OF WOLF BOUNTY CLAIMS

District or County	Adult Wolves		Pups	Total
	Timber	Brush		
Algoma	82	109	0	191
Bruce	13	6	0	19
Cochrane	38	2	4	44
Frontenac	6	0	0	6
Grey	0	2	0	2
Haliburton	8	0	0	8
Hastings	8	4	6	18
Huron	1	0	0	1
Kenora	263	144	16	423
Lambton	0	4	0	4
Lanark	1	1	0	2
Leeds	1	0	0	1
Manitoulin	13	111	1	125
Muskoka	12	6	0	18
Nipissing	38	11	0	49
Norfolk	0	1	0	1
Lennox & Addington	7	1	0	8
Parry Sound	59	3	0	62
Patricia	59	21	2	82
Peterboro	1	0	0	1
Rainy River	155	188	3	346
Renfrew	24	0	1	25
Simcoe	11	1	0	12
Sudbury	62	114	0	176
Temiskaming	2	2	0	4
Thunder Bay	161	112	3	276
Waterloo	1	0	0	1
Welland	0	1	0	1
York	0	1	0	1
Totals	1,026	845	36	1,907

While the total expenditures incurred in connection with the administration of the Wolf Bounty Act amounted to $27,474.24, actual bounty payments accounted for $27,204.00 of this total, details of which are contained in the following statement:—

		Number		Rate	Amount	Total
Brush Wolves	(Counties)	21	@	$ 6.00	$ 126.00	
	(Districts)	816	@	$15.00	$12,240.00	
Total Brush Wolves		837				$12,366.00
Timber Wolves	(Counties)	71	@	$ 6.00	$ 426.00	
	(Districts)	951	@	$15.00	$14,265.00	
Total Timber Wolves		1,022				$14,691.00
Pups	(Counties)	1	@	$ 2.00	$ 2.00	
	(Districts)	29	@	$ 5.00	$ 145.00	
Total Pups		30				$ 147.00
Grand Total		1,889				$27,204.00

In the northern districts the Province pays the entire bounty, but so far as claims originating in the southern counties are concerned, bounty is paid by the County Treasurers and forty per cent rebated to the counties by the Province.

Trappers and farmers were responsible for taking more than eighty per cent of the wolf pelts submitted for bounty, while it is reported that forty-five per cent of the animals were snared, twenty-six per cent trapped, twenty-one per cent shot, and the authorized use of poison was responsible for taking only three per cent. The remaining five per cent were taken by miscellaneous means.

GENERAL

GAME & FISHERIES ACT.

The Game and Fisheries Laws are an important part of the Department's programme to properly conserve the heritage with which it is entrusted. They are not merely regulatory or restrictive but are, in reality, the controlling factors which determine the abundance or otherwise of our wild life resources. They are the result of biological knowledge and practical experience, and have been framed with due regard to the life history of the various species, particularly that phase of it which determines perpetuation. These laws have many classifications but in general they are intended to develop all classes of desirable wild life while permitting the greatest possible use of these resources, and to discourage certain undesirable forms which do not fit into the economic scheme of things.

A study of the laws and regulations will convince the most skeptical that they are an important part of the programme necessary for the conservation of our fish and game resources and that when the public is urged to observe the laws it is a request for co-operation in the management of a valuable trust. Non-observance of the regulations, however unimportant the details may seem, is unfair to that ever-increasing family of sportsmen and nature lovers who conscientiously obey the laws and pursue their recreational pleasures from the highest standard of sportsmanship.

Amendments enacted by the Legislative Assembly and which became effective during the year included the following provisions:—

(a) Open season and other regulations governing the hunting of woodcock, snipe, ducks, geese and other migratory water-fowl to be as provided by the Migratory Birds Convention Act (Canada).

(b) Parties of non-resident hunters to engage licensed guides when hunting moose.

(c) Non-resident bear hunting license for the months of April and May at a fee of $5.25.

(d) Adjustment of royalties on the pelts of certain fur-bearing animals,—lynx, mink, otter and skunk. Ranch raised cross fox exempted from royalty.

(e) Taking of does and fawns permitted in the proportion of one doe or fawn for each two hunters in the party.

(f) Use of snares prohibited in Peel and Carleton Counties.

(g) Permitting use of an automatic shot gun when so permanently reconstructed and plugged as to be capable of holding not more than two shells at any one time.

Amendments to the Fisheries Regulations adopted during the year included the following provisions:—

(a) Minor changes in the open seasons for pickerel, lake trout and whitefish in certain northern districts.

(b) Persons engaging licensed guides while angling not to include such guide as one of their number when computing the number or quantity of fish they are entitled to take.

(c) Exportation of maskinonge by non-resident anglers restricted to one day's catch.

TOURIST OUTFITTERS.

Complete reference to the system of licensing tourist outfitters operating in the northern portion of the Province was embodied in the previous Annual Report. The following analysis shows the distribution by Districts of the 498 camps which were licensed to operate during the year under review:—

TOURIST OUTFITTERS CAMP LICENSES

SUMMARY

Algoma	73
Cochrane	2
Kenora	103
Manitoulin	37
Nipissing	91
Parry Sound	90
Patricia	1
Rainy River	28
Renfrew	10
Sudbury	47
Thunder Bay	15
Temiskaming	1
Total	498

Four hundred and fifty-six of these camps were operated by residents of Ontario, the remaining forty-two by non-residents.

EDUCATIONAL.

In a previous report reference was made to the preparation and distribution of a Monthly Bulletin. This publication was originally produced wholly in the Department and took the form of a mimeographed booklet. Because of the work entailed it had necessarily a limited circulation, although many requests for copies were received. To ensure a wider distribution and to take care of the increasing demands for copies from Protective Associations, schools and private individuals, it was found desirable to have the material printed. Beginning with the May, 1937, issue, therefore, the Bulletin assumed a new form, and a greater significance as an educational medium in the sphere of wild life conservation. The original issue amounted to about 600 copies monthly, under the new scheme of publication the circulation immediately doubled and since then it has continued to increase with each issue.

In this connection we quote the following editorial comment from the June, 1937, issue of this Monthly Bulletin:—

"Education is the foundation of all intelligent thought and action. It is the most important factor entering into the conservation of our wild life and other natural resources. Such progress as has been made in protecting, propagating and re-stocking is due to the practical knowledge and scientific attainment. Practical knowledge of wild life conditions is the result of experience gained in actual personal contact and observations under natural conditions. It is not always reliable taken alone because unwarranted conclusions are frequently drawn from certain conditions or experiences which are open to several explanations. However, the practical value of such first-hand information is of very great importance as it serves to confirm the conclusions arrived at through scientific investigation. The combination of these two sources of knowledge is the basis of our conservation programme."

"Knowledge, however, is progressive. It knows no limitation. The ideas of yesterday are but the stepping-stones to future enlightenment and creative effort. In the field of wild life conservation more attention is being paid to the scientific investigation of life history and environmental conditions. The idea that our wild life resources are inexhaustible passed on with the horse and buggy and the carrier pigeon. Nature provided certain fundamental conditions necessary to wild life perpetuation. We have unwittingly disturbed these conditions and so, in order to keep pace with modern demands, we must take advantage of modern knowledge and experience. This means wise conservation laws based on biological knowledge and practical experience; the investigation of life history and natural conditions; the operation of hatcheries for intensive stocking; the setting aside of preserve areas for natural propagation and development, and the passing on of the knowledge acquired to the public through means of education and publicity. These things, the Department of Game and Fisheries is attempting to do. The results so far have justified the effort."

"The sportsman can do much to foster these plans by co-operating wherever practicable and by lending his aid to put across the ideals of conservation. These ideals have been developed over a long period of years. They embody the results of progressive thought and scientific knowledge, therefore they are modern and worth while. They proclaim individual responsibility as necessary to success, and organized effort the best method of accomplishing the greatest good for the greatest number. In short, conservation is education practically applied, and is the care of everyone interested in wild life preservation or better hunting and fishing."

ENFORCEMENT SERVICE

Many people, who take but a superficial view of the matter, believe that all that is necessary to eliminate and control the ills which afflict organized society, is to enact regulatory laws designed to take care of the problem or problems involved. Laws are essential and necessary to good government, but they are not in themselves a panacea for all the troubles which beset our social and economic systems. Experience has demonstrated that the fewer the laws and the simpler their enactments to cover any particular subject the more effective is their enforcement.

The Game and Fisheries Laws are necessary to the proper administration and perpetuation of our wild life. They are designed with a view to providing the greatest possible individual liberty consistent with the wise use of the resources involved. These laws are respected by a large majority of the citizens of the Province and their observance becomes more and more a passport to good sportsmanship. However, despite their simplicity, we still have the law breaker, the man who continues to ignore legal restrictions and thereby takes unfair advantage of those who "play the game". It is too much to hope that we can entirely eliminate this offender, but there is good reason to believe that through our united efforts we can do much to show the careless and the thoughtless that observance of and respect for the Game and Fisheries Laws is quite an important feature in the protection and development of our wild life natural resources.

To administer and enforce the provisions of the Game and Fisheries Act the Department maintains a regular staff of Field officers throughout the Province. These men are designated Overseers or Game Wardens, and their duties consist of securing observance of the laws and regulations pertaining to fishing, hunting and trapping. Their task is a difficult one though they are invariably courteous but firm in carrying out their duties. These permanent members of our field staff constitute an important section of the protective service. However, their services are augmented by the assistance and co-operation of members of the Ontario Provincial Police Force as well as certain seasonal officers who are retained for varying periods in the matter of providing adequate patrol service along certain waters during the spring and fall fish spawning periods and protective work during the various hunting seasons.

Interested sportsmen also play a large part in the work of protecting our fish and game resources. During the year some 876 sportsmen conservationists offered their services and were accepted as Deputy Game Wardens, and as such are authorized to assist in obtaining proper observance of the Act and Regulations. The practical support and moral effect of this army of voluntary workers is of very great importance in preventing abuses of the privileges enjoyed by sportsmen.

The Department deplores the fact that it is necessary to prosecute in order to obtain proper observance of the Game and Fisheries Laws. It is hoped that through education, an enlightened public opinion, and a general knowledge of the value of our resources the law breaker will become so unpopular that his depredations will be considerably reduced. In the meantime, however, the poacher, the unscrupulous trapper and the petty lawbreaker still keep the enforcement officers busy.

During 1937-38 there were some 1362 cases in which offenders against provisions of the Game and Fisheries Act and Regulations were apprehended in their offences by members of the Field Service Staff who promptly relieved those involved of the articles of sporting equipment they carried as well as the unlawful game or fish they might have had in their possession on such occasions. From an examination of the reports supplied in these cases it is learned that action was provided by

Game and Fisheries Overseers in 1157 of these cases, by Deputy Game Wardens in 62 cases, by members of the Ontario Provincial Police Force in 48 cases, and in the remaining 95 cases by co-operative action amongst Overseers, Deputy Game Wardens, and Provincial Police Constables.

A condensed summary of the material confiscated shows the following:—

Live animals	in	7	cases
Birds, game animals and meat	in	160	cases
Firearms and ammunition	in	460	cases
Fish	in	209	cases
Nets and fishing equipment	in	213	cases
Angling equipment	in	84	cases
Pelts and hides	in	228	cases
Traps and equipment	in	166	cases
Water craft	in	29	cases
Motor vehicles	in	11	cases
Lights	in	21	cases
Spears	in	66	cases
Miscellaneous	in	52	cases

Duplicate entries on one seizure report, such as firearms and game; angling equipment and fish; trapping equipment and pelts, and other combinations of a similar nature account for the apparent discrepancy in the total shown by the foregoing table, viz, 1706, as compared with seizure reports numbering 1362.

Departmental records disclose the fact that during the year reported upon some 1108 cases were prosecuted through the courts, and that convictions were registered in 1045 of these cases, while charges in the remaining 63 cases were dismissed by the Magistrates who presided thereon. Game and Fisheries Overseers prosecuted in 960 cases and were successful in 913; Provincial Police Constables in 67 cases and secured convictions in 62; Deputy Game Wardens in 18 cases in 16 of which convictions were registered; while co-operative action by Overseers, Provincial Police and Deputy Game Wardens resulted in 54 convictions out of the 63 cases prosecuted.

While each officer is required to be impartial and efficient in the carrying out of his duties he is also required to use common sense and display courtesy in his treatment of the general public with whom he comes into contact. We believe that as a general rule the members of our enforcement service are guided by these requirements at all times. Public service is synonymous with criticism rather than commendation. The control which is essential to the proper administration of a trust, such as our wild life resources, is often irksome to those who object to anything in the nature of restrictions on their so-called "liberties". As a consequence enforcement frequently results in irritation. For this reason we are always glad to receive letters such as the following from one of our United States visitors who resides in the State of Ohio. He writes, "For ten years I have been coming to your Province to do my fishing and the courtesy and consideration extended to me by the officials of your bureau and the citizens of the various communities visited has been very gratifying to me."

THE FISH CULTURE BRANCH

Waters abounding in fish are an asset to any community. Increased fishing possibilities mean increased tourist travel; this stabilizes various business enterprises, especially in recreation centres noted for their game-fish. Apart, however, from the direct and indirect financial benefits of a rapidly increasing tourist trade, the healthful and recreational advantages associated with game-fishing are of inestimable value.

The maintenance of the commercial fishing industry is also of vital importance to the Province. Information regarding the value of this enterprise is summed up in the statistics of the fishing industry for the year in appendices 3 and 4.

The successful maintenance and increased usefulness of these interests are being developed in a variety of ways and the re-stocking of lakes and streams in a practical manner is of outstanding importance in this connection. To this end a vigorous fish cultural programme is being pursued with satisfactory results.

HATCHERIES AND REARING STATIONS

During the year the Department operated twenty-four fish cultural stations. The actual number of hatcheries operated was twenty; trout rearing stations, eleven; bass rearing stations, four, and additional facilities were provided as outlined in the following paragraphs.

At the Fort Frances hatchery facilities were provided for carrying lake trout to the fry and early fingerling stages.

An excellent site for bass rearing ponds was located at the outlet of Lake Manitou, Manitoulin Island, in the vicinity of Sandfield. One pond was completed before the end of the year and was used, successfully, for wintering trout fingerlings to the yearling stage.

A second bass rearing pond, approximately one acre in area, was provided at the White Lake Station, Frontenac County. Speckled trout were wintered in this new pond very successfully.

An additional trout pond was added to the series of three on the property of the Ontario Government Reforestry Station at Midhurst, and acquired for use by the Department.

The water supply from Waring's Creek, located one and one-half miles west of Picton, was used for rearing trout fingerlings. This station was provided with outside rearing troughs of portable construction.

SPECKLED TROUT:

The Department continued the policy of rearing large numbers of trout to yearling and older stages for distribution to suitable public waters. The results of this plan have been successful.

The following comparative distribution figures indicate the progress that is being made:

	1936	1937
Yearlings	557,270	1,167,073
Adults	6,081	16,150

In addition, 384,725 fingerling trout were planted, slightly more than one-third the number planted the previous year. The entire abandonment of the distribution of trout fry and fingerlings is contemplated, with the exception of any surplus which cannot be accommodated in our rearing stations.

BROWN TROUT:

Excellent progress was made in regard to rearing brown trout to the yearling stage. During the year 97,484 yearling and older brown trout were distributed as compared with 7,290 during a similar period in the preceding year.

Encouraging reports of successful angling for this species have been received and intensive re-stocking of suitable streams in southern Ontario is being pursued on the basis set forth in the two preceding reports.

RAINBOW TROUT:

(a) Steelhead Trout—

The waters chosen for the planting of steelhead trout were such as to fulfil the natural requirements of this species; the number of steelhead rainbows planted was somewhat less than the number planted in 1936, but the number of Kamloops trout (an allied species) distributed made up for this deficit.

(b) Kamloops trout—

This variety of rainbow trout is native to a number of lakes in the interior of British Columbia. It is an excellent sporting fish and may be taken on the fly and by trolling. Excepting during hot summer weather they are usually taken near the surface. One important characteristic is that they show very little tendency, if any, to migrate from the lakes in which they are planted.

Speckled trout lakes supplied with good tributary streams are considered suitable for Kamloops trout.

Eighty thousand fingerlings of this species were planted during the year.

Returns from previous plantings in Echo Lake (Muskoka) and a small lake adjacent to Lake Timagami, are, we hope, forerunners of greater success to be achieved from the distribution of this important variety to a number of our lakes.

LAND-LOCKED SALMON:

The Department was unable to secure any eggs of this species from the Province of Quebec or elsewhere. The land-locked salmon hatchery at St. Felicien, Quebec, has not operated for some time.

A small number of fry of the Atlantic salmon, a closely related species, were planted on an experimental basis.

A few excellent specimens of land-locked salmon planted in Skeleton Lake, Muskoka District, have been caught by angling.

LAKE TROUT:

There was an increase in the distribution of eyed eggs and fry over the number distributed in the preceding year amounting to 7 per cent. There was a decrease in the distribution of fingerlings amounting to 13.6 per cent. For the egg collection, the Department depends on the co-operation of the fishermen and the work of our own spawntaking crews. Stormy weather in the fall, either continuously or intermittently, interferes with the work; this condition was particularly detrimental during the fall of 1937.

WHITEFISH:

There was a decrease of approximately 9.6 per cent in the distribution of whitefish as compared with that of the previous year; this was due to the reduced collection of spawn from the North Channel and Lake Ontario whitefish.

HERRING:

The large decrease in the distribution of herring fry was due in the main to the reduction in the collection of eggs from Lake Ontario herring and a greater reduction in the collection from Lake Erie herring, the latter collection being practically negligible. There are very hopeful signs that the population of herring in Lake Erie is gradually increasing after the disastrous decline in 1925. If the present population is permitted to spawn at least once, and preferably twice, before they are taken commercially, there will be a decided increase of this very important commercial species. As a result large collections of spawn should be available in future years.

YELLOW PICKEREL:

There was a decrease of 12.4 per cent in the distribution of pickerel fry as compared with that of the preceding year, due primarily to the reduced collection of pickerel spawn in the southern portion of Lake Huron.

Following the usual practice, two million eyed eggs were handled by the Sparrow Lake hatchery, the fry being distributed to suitable areas of Sparrow Lake.

SMALL-MOUTHED BLACK BASS:

Excellent results were obtained in connection with the culture of small-mouthed black bass; the increased production of fry and fingerlings was 63.4 per cent and 104.5 per cent, respectively, over that of the previous year.

There was also a slight increase in the distribution of yearlings and older bass, as a result of bass harvesting from natural areas; a limited amount of this work is conducted by our hatchery officers, annually.

LARGE-MOUTHED BLACK BASS:

Following the previous year's practice, one pond was operated for the production of this species with satisfactory results. This pond, which is 0.64 acres in area, produced 135,000 fry and 4,120 fingerlings.

YELLOW PERCH:

Due to a diminished run of spawning fish, there was considerable reduction in the number of perch eggs collected by the commercial fishermen in the vicinity of the Kingsville hatchery, where the eggs are cultured to the fry stage.

BLUE PICKEREL:

Blue pickerel spawn was collected in the west end of Lake Erie and cultured to the fry stage in the Kingsville hatchery; this was the first time that such work was undertaken by our Department.

This is a species of considerable commercial value in Lake Erie, and artificial culture is one way by which its maintenance may be assisted.

MASKINONGE:

The distribution of maskinonge fry was increased 53.5 per cent over that of the preceding year, due largely to a much more satisfactory collection of eggs. One chief drawback was prevailing cold weather during the incubation period, which retarded development. This condition was followed by a sharp rise in temperature, causing too rapid development and hatching.

The difficulties surrounding the culture of this important species were outlined in the previous year's report, and the information given applies with equal force to the results obtained in 1937.

In Wisconsin the culture of maskinonge has been pursued for thirty to forty years. A large number of eggs are collected from areas where the parent fish are abundant, and a large number of fry are planted annually, but the rearing of fingerlings is a much more difficult matter; Wisconsin is reported to have reared 1,417 fingerlings of this species in 1937. New York State has likewise pursued the culture of maskinonge for over thirty years. This work is concentrated on Lake Chautauqua where parent maskinonge are plentiful and, therefore, egg collection and fry production large; in 1937 it is recorded that New York State planted 856 maskinonge fingerlings. In Minnesota progress along these lines has been slow on account of the scarcity of the breeding fish. Small numbers of fry have been distributed, but there is no authentic or definite record of the number of fingerlings actually reared up to and including 1937.

In Ontario these activities are concentrated in the Kawartha Lakes region and for good reasons. In the first place, these waters have the necessary or essential conditions for producing maskinonge. Secondly, this area requires intensive restocking on account of the intensity of the fishing. A good indication of the capacity of these lakes to produce maskinonge is given in the statistics of catch from 1892 to 1901, when this important species was taken in large numbers, commercially.

The Department is endeavouring to maintain and to build up the maskinonge supply in a variety of ways, which may be summed up in a more or less concise manner as follows:

1. Restricted bag limit and restricted number of days' fishing.
2. Protection of the normal population in sanctuary areas, taking in waters adjacent and outside these areas only the natural increase from them. An explanation of the purposes of these sanctuaries was given in detail in the previous year's report.
3. The planting of fry in suitable areas.
4. Further studies regarding the possibilities of rearing fry to the fingerling stage.

CLOSED WATERS

In addition to those waters already closed for the natural protection and propagation of fish, the following closures were autnorized during the year.

(a) **For Speckled Trout Propagation:**

DUCHESNEY CREEK,
Townships of Commanda and Widdifield, District of Nipissing.

IDLWYLD STREAM,
Township of Waterloo, County of Waterloo.

JOHNSON CREEK,
Townships of Kowkash, Paska, and Rupert, District of Thunder Bay.

LITTLE JOCKO RIVER,
From Morrow's Dam, east to its outlet into Big Jocko River, District of Nipissing.

MALTA LAKE,
Township of Boulter, District of Nipissing.

NELLIE LAKE,
Townships of Calver and Aurora, District of Cochrane.

PATTERSON'S CREEK,
Townships of Wawanosh and Hullett, County of Huron.

PUMPHOUSE CREEK,
Townships of Hart and Cartier, District of Sudbury.

WHITEHEAD'S CREEK,
Township 67, District of Algoma.

(b) **For Black Bass Propagation:**

ARCAND LAKE,
Township of McBeth, District of Sudbury.

FOUR MILE LAKE,
Township of Widdifield, District of Nipissing.

GEORGIAN BAY (Portion),

(a) An area approximately 1 mile square lying west of Electric Island.

(b) An area approximately 1 mile square lying west of Lot 51, Concession VIII., Township of Harrison, District of Parry Sound.

(c) An area lying east of and extending approximately 2 miles along the shore line opposite Concessions XIII. and XIV., Township of Harrison, District of Parry Sound.

TWELVE MILE CREEK,
Townships of Nelson and Trafalgar, County of Halton.

(c) **For Lake Trout Propagation,**

OTTER LAKE,

Township of Foley, District of Parry Sound (Effective from the 16th day of November in each year to the 15th day of May next following).

WATER LEVELS

During the past three years, marked improvement has been shown in regard to the control of water levels. Biologically, proper control is of the greatest importance, especially when we consider that bass, maskinonge, pike, sunfish, minnows, and many other species spawn in shallow water, and that their immature stages, or adult stages, or both, live in comparatively shallow water. The fall spawning fish such as lake trout, herring, and whitefish run into comparatively shallow water and spawn on suitable shoals or grounds. The spawning depth of water for these fall spawners is much greater than that required by black bass, which is about two feet, or by minnows, which is only a few inches. The withdrawal of water from these shallows is menacing to the eggs of the spawning fish, this depending on the spawning depth and the drop in water level, but quite apart from this, the withdrawal of water from the shallows destroys myriad forms of life, for example, those of sedentary habit, those temporarily attached, the algae which harbour minute life, shellfish, and insects, and aquatic plants of various kinds.

REMOVAL OF COARSE FISH

Between December 20th and January 16th hoop nets were operated for the removal of ling from the following waters:

(a) **In Leeds County,—**
Charleston, Grippen, Wolfe, and Otter Lakes.

(b) **In Lanark County,—**
Tay River and Otty Lake.

The total number of ling removed from these waters was 6,520; the average weight of the ling was 7 pounds, and the total weight of ling removed was in the neighbourhood of 45,640 pounds or 22.8 tons.

Similar operations were conducted on Lake Manitou, Manitoulin Island. During the whitefish spawntaking operations in the lake 4068 pounds of ling were taken in pound nets. The average weight of each ling was approximately six pounds. Night lines were used experimentally without satisfactory results.

During the latter part of February and in March of 1938, hoop nets and gill nets were operated and 2270 pounds of ling taken. Each of these averaged four pounds in weight.

BIOLOGICAL SURVEYS

Pollution surveys were conducted on the Rainy River, Maitland River, (Goderich), and the Niagara River.

Fish planting surveys were carried out on the Holland River, Bradford, and Waterworks Pond at Richmond Hill.

Extensive surveys were conducted in connection with suitable sites for black bass rearing ponds on Manitoulin Island, Muskoka District, and Peterborough County. Surveys were also conducted in the Timiskaming District in regard to a suitable site for a trout rearing station.

With the exceptions noted above, all the work of a biological nature was concentrated on the fish cultural activities carried on in our hatcheries and rearing stations.

The Ontario Fisheries Research Laboratory of the Department of Biology, University of Toronto, conducted field investigations, coupled with laboratory studies on a number of waters in Algonquin Park during the season 1937-38, and the following is a concise account of this important work:

"One of the principal functions of this laboratory is to examine the conditions in game fish producing lakes and streams. Information obtained in this way gives a better understanding of how rapidly fish grow and how a good supply can be maintained. During 1937-38 the work was carried on in the lakes and streams of Algonquin Park.

The major studies undertaken during the year included an investigation of the vertical distribution of the young of the yellow perch in relation to their availability as food for lake trout. The food of the young perch was studied in order to learn what governed the supply of this important source of trout food. The food was found to consist of 85% *Daphnia* or water fleas, 10% small insect larvae and 5% sunfish fry.

Other studies were directed to the production of insects in the lakes and streams from the point of view of their value as food for fish.

The collection of angling statistics was continued and extended. These figures are now extensive enough to make possible a preliminary estimate of the natural productivity of the Algonquin Park lakes with respect to lake trout. They have also proven their value in following the trend of speckled trout production in Red Rock lake, and have made possible the application of measures designed to keep up production in this important lake.

During the year about 200 adult lake trout were transferred to Cache lake, some by truck and some by air, with satisfactory ease and economy. Some 2,000,000 perch fry, 100,000 lake herring fry, and some minnows were planted in Cache lake. These forage fish were introduced for the purpose of increasing the food for the bass and the lake trout."

ACKNOWLEDGMENTS

In conclusion I desire to give expression to my appreciation of the valuable assistance and co-operation rendered the Department from many sources during the year, and more particularly from the various Fish and Game Protective Associations as such and the individual members of these organizations. The sphere of activity of these Protective Associations is extending and the interest and influence of the members of these organizations and other sincere sportsmen is sufficiently evident to warrant the assertion that it is practically impossible to estimate the benefits derived by the Department therefrom in our efforts along the lines of providing an efficient administration and supervision of the wild life natural resources of this Province. Such a measure of co-operation encourages us to intensify our endeavours to preserve unimpaired and possibly improve the opportunities which exist in this Province to those who so desire to enjoy such healthly recreation which our fish and game make available.

It might also be stated that, generally speaking, members of the Staff, both the inside and outside service, have conducted themselves and performed the duties assigned to them in the best interests of the Department and its varied activities.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR,

Deputy Minister of Game and Fisheries

Toronto, April 12th, 1939.

APPENDIX No. 1

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS

April 1st, 1937 to March 31st, 1938

LARGE-MOUTHED BLACK BASS

FRY

Bruce:

Marle Lake	5,000
Maryville Lake	10,000
Saugeen Lake	10,000

Grey:

Mountain Lake	10,000
Saugeen River	15,000

Muskoka:

Bass Lake	5,000
Black Lake	10,000
Wood Lake	10,000

Parry Sound:

Limestone Lake	5,000
Little Lake	5,000
Wolf River	10,000

Simcoe:

Gloucester Pool	25,000

York:

Lake Simcoe	15,000

FINGERLINGS

Durham:

Lake Scugog	1,000

Haliburton:

Black Lake	500

Nipissing:

Blackwater Lake	1,000

Norfolk:

Little Lake	500
Teeterville Pond	500

York:

Mary Lake	510
Waterworks Pond	110

ADULTS

Oxford:

Lakeside Lake	42
Maplehurst Lake	50

SMALL-MOUTHED BLACK BASS

FRY

Bruce:

Britain Lake	5,000
Burford Lake	10,000
Cameron Lake	10,000
Chesley Lake	10,000
Gould Lake	10,000
Isaac Lake	15,000
Miller Lake	10,000
Pearl Lake	5,000
Saugeen River	15,000
Shouldice Lake	10,000
Silver Lake	10,000

Carleton:

Ottawa River	15,000
Rideau River	10,000

Frontenac:

Big Gull Lake	10,000
Clear Lake (Kennebec)	5,000
Fortune Lake	5,000
Long Lake (Clarendon)	5,000
Mink Lake	5,000
Pine Lake	5,000
Sand Lake	5,000
Sharbot Lake	10,000
Sunday Lake	5,000

Grenville:

Nine Mile Reach	5,000

Hastings:

Baptiste Lake	15,000
Crow Lake	10,000
Gunter Lake	5,000
Little Salmon River	5,000
Moira River	10,000
Stoco Lake	10,000
Tongamong Lake	5,000

Lanark:

Bennet's Lake	5,000
Black Lake	5,000
Christie Lake	10,000
Clear Lake	5,000
Dalhousie Lake	5,000
Mississippi Lake	10,000
Fagan's Lake	5,000
Otty Lake	5,000
Pike Lake	5,000

Leeds:

Beverley Lake (lower)	10,000
Big Rideau Lake	40,000
Charleston Lake	10,000
Clear Lake	5,000
Crosby Lake	5,000
Gananoque Lake	10,000
Grippen Lake	5,000
Indian Lake	10,000
Newboro Lake	5,000
Opinicon Lake	10,000
Sand Lake	5,000
South Lake	5,000
Troy Lake	5,000

Lennox:

Lime Lake	5,000
Long Lake	5,000
Slave Lake	5,000
South Beaver Lake	5,000

Muskoka:

Beaver Lake	5,000
Buck Lake	5,000
Clear Lake	5,000
Dickie Lake	10,000
Kahshe Lake	5,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

SMALL-MOUTHED BLACK BASS —Continued

Muskoka—Continued	
Lake Joseph	25,000
Lake Stewart	15,000
Leech Lake	5,000
Morrison Lake	10,000
Rat Lake	5,000
Silver Lake	5,000
Wood Lake	10,000
Northumberland:	
Bidy Lake	5,000
Crow Bay	5,000
Crow River	10,000
Rice Lake	15,000
Trent River	10,000
Ontario:	
Lake St. John	20,000
Parry Sound:	
Balsam Lake	10,000
Bass Lake (Humphrey)	5,000
Bass Lake (Patterson)	10,000
Beaver Lake (Foley)	5,000
Blackstone Lake	10,000
Blackwater Lake	5,000
Clear Lake (Humphrey)	5,000
Clear Lake (Patterson)	5,000
Commanda Lake	10,000
Crane Lake	5,000
Crooked Lake	10,000
Deer Lake (Lount)	10,000
Deer Lake (McKenzie)	5,000
Diamond Lake	5,000
Horseshoe Lake	10,000
Jackson Lake	5,000
Lake Joseph	10,000
Little Long Lake	10,000
Manitowaba Lake	10,000
Mary Jane Lake	5,000
Mill Lake	10,000
Pickerel River	10,000
Rankins Lake	10,000
Restoule Lake	10,000
Ruth Lake	10,000
Sequin River	10,000
Shawanaga River	10,000
Shebeshekong Lake	5,000
Shoal Lake	5,000
Stormy Lake	5,000
Toad Lake	5,000
Trout Lake (Humphrey)	5,000
Turtle Lake	5,000
Whitefish Lake	5,000
Whitestone Lake	10,000
Wilson Lake	5,000
Wolf River	10,000
Peterborough:	
Belmont Lake	5,000
Deer Lake (Cavendish)	5,000
Katchawanooka Lake	15,000
Pigeon Lake	15,000
Stony Lake	10,000
Prince Edward:	
East Lake	5,000
West Lake	5,000
Simcoe:	
Cook's Lake	10,000
Gloucester Pool	40,000
Kempenfeldt Bay	25,000
Little Lake (Vespra)	5,000
Park Lake (Tay)	10,000
Stormont:	
Nation River	15,000
Victoria:	
Balsam Lake	25,000
Big Mud Turtle Lake	10,000
Burnt River	15,000
Cameron Lake	25,000
Dalrymple Lake	15,000
Head Lake	15,000
Little Mud Turtle Lake	10,000
Pigeon Lake	25,000
Round Lake	5,000
Silver Lake	10,000
Sturgeon Lake	25,000
York:	
Lake Simcoe	25,000

FINGERLINGS

Algoma:	
Batchewana Bay	3,750
Dean Lake	2,000
Desbarats Lake	1,000
Gawas Bay	1,000
Gordon Lake	1,000
Goulais Bay	3,750
Harmony Bay	3,750
Haviland Bay	3,750
Keichel Lake	500
Little Basswood Lake	1,000
Otter Lake	500
Pipe Lake	500
Rock Lake	1,000
Round Lake	1,500
St. Joseph Channel	4,000
Stuart Lake	1,000
Brant:	
Big Creek	1,000
Grand River	2,000
Gravel Pit at Scotland	800
Cochrane:	
Sesekinika Lake	1,000
Frontenac:	
Cox's Lake	500
Cross Lake (Kennebec)	500
Cross Lake (Palmerston)	2,000
Crow Lake	500
Dog Lake	1,000
Elbow Lake	1,000
Farm Lake	500

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

SMALL-MOUTHED BLACK BASS —Continued

Frontenac—Continued	
Horseshoe Lake	500
Hotel Lake	500
Long Lake (Hinchinbrooke)	500
Loughborough Lake	2,000
Marble Lake	500
Mazinaw Lake	1,000
Mississagagon Lake	500
Salmon River	500
Swamp Lake	500
White Lake (Bedford)	1,000
Grey:	
Connell's Lake	1,000
Francis Lake	1,000
Haliburton:	
Beech Lake	500
Big Boskung Lake	500
Davis Lake	500
Dennies Lake	500
Devils Lake	500
Elephant Lake	1,000
Grass Lake	500
Gull Lake	1,000
Head Lake	1,000
Kashagawigamog Lake	1,000
Koshlong Lake	500
Long Lake (Dudley)	500
Long Lake (Dysart)	500
Maple Lake	500
Mink Lake	500
Misquahbenish Lake	500
North Lake	500
Pine Lake	500
Pond Lilly Lake	500
South Lake	500
West Lake	500
West Straggle Lake	500
Halton:	
Bronte River	1,000
Hastings:	
Bass Lake	500
Moira Lake	500
Pine Lake	500
Wadsworth Lake	500
Lanark:	
McGowan's Lake	500
Lennox-Addington:	
Cedar Lake	500
Loon Lake	1,000
Pringle Lake	1,000
Sheldrake Lake	500
Varty Lake	1,000
Middlesex:	
Thames River	2,000
Muskoka:	
Bass Lake	1,000
Devine Lake	1,000
Casswell Lake	1,000
Clearwater Lake	1,000
Gull Lake	1,000
Lake McKay	1,000
Lake Rosseau	1,000
Nipissing:	
Bear Lake	1,000
Bruce Lake	1,000
Cache Lake	500
Deer Lake	500
Finlayson Lake	1,000
McPhee Lake	1,000
Muskosung Lake	500
Nosbonsing Lake	500
Talon Lake	500
Timagami Lake	1,000
Trout Lake	2,500
Turtle Lake	1,500
Wickstead Lake	1,500
Wis-Wassie Lake	500
Oxford:	
Thames River	1,000
Parry Sound:	
Ahmic Lake	1,000
Bear Lake	2,000
Beaver Lake (Bethune)	2,000
Beaver Lake (Spence)	1,000
Burden Lake	1,000
Crawford Lake	1,000
Doe Lake	2,000
Lake Cecile	1,000
Lake of Many Islands	1,000
Little Clam Lake	1,000
Little Deer Lake	1,000
Magnetawan River	1,000
Mogonosh Lake	1,000
Pickerel Lake	1,000
Rainy Lake	2,000
Spring Lake	1,000
Peel:	
Credit River	2,000
Peterborough:	
Burleigh Falls Stream	500
Chemong Lake	500
Clear Lake (Smith)	500
Clear Lake (Cavendish)	500
Crab Lake	500
Jack's Lake	500
Loon Lake	500
Lovesick Lake	500
Quarry Lake	500
White Lake	500
Simcoe:	
Lake Couchiching	1,000
Lake Simcoe	1,000
Nottawasaga Lake	1,000
Severn River	1,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS

April 1st, 1937, to March 31st, 1938—Continued

SMALL-MOUTHED BLACK BASS —Continued

Sudbury:

Badger Lake	1,000
Bass Lake	1,000
Frood Lake	1,000
Lacloche Lake	1,000
Lake Agnew	1,000
Metagamasi Lake	1,000
Ratter Lake	500
Ted's Lake	2,000
Trout Lake (Cherriman)	1,000

Timiskaming:

Lake Timagami	1,000

Victoria:

Cranberry Lake	500
Hurricane Lake	500

Waterloo:

Conestoga River	2,000
Grand River	1,000
Paradise Lake	1,000

Wellington:

Puslinch Lake	1,000

York:

Grenadier Pond	100

YEARLINGS and ADULTS

Haldimand:

Grand River	100

Halton:

Crawford's Lake	50

Hastings:

Bennett Lake	85

Kenora:

Basket Lake	81
Birch Lake	82
Black Sturgeon Lake	80
Dogtooth Lake	81
Lawrenson's Lake	40
Long Lake	74
Longbow Lake	147
Round Lake	40

Kent:

Rondeau Bay	89

Middlesex:

Thames River	230

Norfolk:

Waterford Pond	100

Oxford:

Cedar Creek	100

Peterborough:

Stony Lake	100

Renfrew:

Black Bay	190
Blackfish Bay	100
Bonnechere River	100
Bourgneau, or Snake Lake	102
Coldingham, or Green Lake	110
Colton Lake	108
Corry Lake	95
Devils Lake	100
Foster Lake	25
Genrick's Lake	100
Hurd's Lake	100
Hyde's Bay	85
Jack's Lake	90
Jamieson Lake	100
Kaminiskeg Lake	100
Lake Johnnie	96
Long Lake	100
Maskalonge Lake	96
McMaster Lake	100
Moccasin Lake	100
Muskrat River	204
Nakiks Lake (Madawaska River)	100
Norway Lake	100
Olmstead Lake	100
Round Lake and Stoney Lake	90
White Lake (McNab)	100
White Lake (Raglan)	100
Whitefish Lake	100

Thunder Bay:

Cloud Lake	110
Fox Lake	200
Gull Lake	145
Kashabowie Lake	100
Lac Des Mille Lacs	100
Loon Lake	110
McKay Lake	175
O'Brein Lake	180
Poulin Treble Lakes	110
Shebandowan Lake	150
Silver Lake	115

York:

Grenadier Pond	28

MASKINONGE

FRY

Hastings:

Crow Lake	20,000
Crow River	10,000
Moira Lake	10,000
Moira River	5,000
Sears Lake	5,000
Stoco Lake	10,000
Whitestone Lake	10,000

Leeds:

Rideau River	10,000
St. Lawrence River	20,000

Northumberland:

Cassidy's Bay	10,000
Crow Bay	10,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

MASKINONGE—Continued

Northumberland—Continued	
Crow River	10,000
Rice Lake	20,000
Trent River	40,000
Peterborough:	
Belmont Lake	10,000
Buckhorn Lake	10,000
Chemong Lake	15,000
Deer Bay	15,000
Deer Lake	10,000
Katchawanooka Lake	15,000
Lovesick Lake	15,000
Otonabee River	10,000
Pigeon Lake	30,000
Round Lake	10,000
Stony Lake	15,000
Trent River	10,000
Prince Edward:	
Bay of Quinte	5,000
Muscote Bay	5,700
Stormont:	
St. Lawrence River	10,000
Victoria:	
Balsam Lake	10,000
Burnt River	10,000
Mill Pond	10,000
Sturgeon Lake	15,000

PERCH
FRY

Lake Erie	9,150,000

YELLOW PICKEREL (Pike-perch)
FRY

Algoma:	
Cummings Lake	150,000
Desbarats Lake	150,000
Duborne Lake	150,000
Echo Lake	418,400
Gordon Lake	200,000
Keichel Lake	400,000
Marion Lake	150,000
Mud Lake	150,000
Otter Lake	100,000
Pipe Lake	150,000
Randolph Lake	100,000
Rock Lake	200,000
Round Lake	100,000
St. Mary River	700,000
Bruce:	
Berry's Lake	100,000
Chesley Lake	250,000
Gauley's Bay	500,000
Isaac Lake	250,000
Miller Lake	100,000
Sauble River	325,000
Saugeen River	625,000
Saugeen River—N. Branch	250,000
Carleton:	
Ottawa River	800,000
Rideau River	400,000
Cochrane:	
Bigwater Lake	200,000
Mortimer Lake	250,000
Reid Lake	250,000
Remi Lake	500,000
Unnamed lake—Fauquier Tp.	200,000
Wilson Lake	250,000
Frontenac:	
Big Gull Lake	700,000
Bobs Lake	600,000
Clear Lake	200,000
Collins Bay	200,000
Cross Lake (Palmerston)	700,000
Crotch Lake (Kennebec)	100,000
Crow Lake	400,000
Elbow Lake	100,000
First Depot Lake	100,000
Horseshoe Lake	100,000
Little Mississagagon	100,000
Long Lake (Kennebec)	50,000
Long Lake (Clarendon)	600,000
Long Lake (Portland)	600,000
Long Lake (Hinchinbrooke)	100,000
Mississagagon Lake	400,000
Mississippi Lake	750,000
Rideau Lake	500,000
Rock Lake	500,000
St. Lawrence River	250,000
Sharbot Lake	400,000
Sydenham Lake	250,000
Thompson Lake	100,000
Grenville:	
Rideau River	1,500,000
Grey:	
Mountain Lake	250,000
Nottawasaga River	500,000
Haldimand:	
Grand River	2,000,000
Haliburton:	
Paudash Lake	1,200,000
Hastings:	
Moira Lake	500,000
Moira River	750,000
Sears Lake	100,000
Stoco Lake	250,000
Kenora:	
Black Sturgeon Lake	1,000,000
Eagle Lake	3,000,000
Lake of the Woods	42,985,000
Log Bay	1,750,000
Marchington Lake	1,000,000
Matheson Bay	4,800,000
Stanzikihimi Lake	1,000,000
Wabigoon Lake	1,000,000
Willard Lake	840,000
Kent:	
Rondeau Bay	250,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

YELLOW PICKEREL (Pike-Perch) —Continued

Lanark:	
Black Lake	200,000
Christies Lake	200,000
Clear Lake	450,000
Fagan's Lake	100,000
Mississippi Lake	400,000
Otty Lake	200,000

Leeds:	
Big Rideau Lake	700,000
Higley Lake	250,000
Killembeck Lake	250,000
Little Rideau Lake	150,000
Sand Lake	700,000
St. Lawrence River	1,000,000

Lennox-Addington:	
Long Lake	400,000
Napanee River	2,000,000
South Beaver Lake	400,000
White Lake	400,000

Manitoulin:	
Fraser Bay	2,000,000
Lake Helen	1,000,000
Linda Lake	500,000
MacGregor Bay, & Bay Finn	4,000,000

Muskoka:	
Allen's Lake	100,000
Bala Bay	500,000
Bass Lake	50,000
Brandy Lake	200,000
Buck Lake	200,000
Kahshe Lake	300,000
Lake Rosseau	1,300,000
Muskoka River	500,000
Musquash River	500,000
Six Mile Lake	500,000
Sparrow Lake	*2,000,000
Three Mile Lake	500,000

Nipissing:	
Bruce Lake	100,000
Finlayson Lake	100,000
Herridge Lake	100,000
Jumping Caribou Lake	250,000
Lake Chebogamog	100,000
Lake Nosbonsing	250,000
Lake Temagami	500,000
Marion Lake	250,000
Martin Lake	250,000
McPhee Lake	100,000
Olive Lake	100,000
Red Cedar Lake	250,000
Talon Lake	250,000
Tilden Lake	100,000
Tomiko Lake	250,000
Wickstead Lake	250,000
Wilson Lake	100,000
Wis-Wassie Lake	250,000

Norfolk:	
Waterford, or Nanticoke Creek	250,000

Northumberland:	
Rice Lake	1,200,000
Trent River	3,250,000

Ontario:	
Lake St. John	250,000

Oxford:	
Lakeside Lake	500,000

Parry Sound:	
Ahmic Lake	500,000
Bass Lake	150,000
Blackstone Lake	100,000
Burden Lake	500,000
Clear Lake	250,000
Commanda Lake	200,000
Crane Lake	200,000
Crawford Lake	100,000
Crooked Lake	250,000
Deer Lake	250,000
Doe Lake	300,000
French River	1,000,000
Horseshoe Lake	150,000
Isabella Lake	200,000
Jack's Lake	50,000
Lake Joseph	300,000
Lake Rosseau	1,000,000
Little Long Lake	100,000
Long Lake	250,000
Magnetawan River	500,000
Manitowaba Lake	150,000
McKeown Lake	100,000
Mill Lake	150,000
Otter Lake	300,000
Owl Lake	100,000
Pickerel River	150,000
Restoule Lake	200,000
Sequin River	250,000
Shawanaga Lake	250,000
Shebeshekong Lake	150,000
Shoal Lake	150,000
Stewart Lake	100,000
Stormy Lake	200,000
Whitestone Lake	250,000
Wolf River	250,000

Peterborough:	
Little Lake	250,000
Otonabee River	1,200,000
Rice Lake	1,200,000
Trent River	600,000

Prince Edward:	
Bay of Quinte	5,200,000
Consecon Lake	600,000
East Lake	600,000
West Lake	500,000

Rainy River:	
Beaverhouse Lake	2,000,000
Clearwater Lake	2,000,000
Off Lake	1,000,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

YELLOW PICKEREL (Pike-Perch) —Continued

Rainy River—Continued	
One Sided Lake	1,000,000
Quill Lake	2,000,000
Rainy Lake	65,000,000
Sabaskong Bay	3,000,000
Windigoostigwam Lake	1,000,000
Russell:	
Castor River	1,000,000
Simcoe:	
Gloucester Pool	1,250,000
Little Lake	500,000
Sturgeon Bay	1,000,000
Stormont:	
Nation River	500,000
St. Lawrence River	2,400,000
Sudbury:	
Birch Lake	150,000
Charlton Lake	250,000
Cranberry Lake	500,000
Frood Lake	250,000
Ivanhoe Lake	250,000
Lacloche Lake	300,000
Lake Penage	3,000,000
Mattagamasi Lake	200,000
McLaren Lake	300,000
Ramsay Lake	1,000,000
Wanapitei Lake	1,000,000
Whitefish Falls Bay & River	5,000,000
Wolseley Bay	500,000
Unnamed Lake	200,000
Thunder Bay:	
Baril Lake	1,000,000
Cordingley Lake	500,000
Lake of Flats	200,000
Lake Shebandowan	2,000,000
Savant Lake	1,000,000
Thunder Bay	1,500,000
Timiskaming:	
Granite Lake	250,000
Lady Evelyn Lake	250,000
Lake Timagami	500,000
Lake Timiskaming	500,000
Net Lake	250,000
Rib Lake	200,000
Sesekinika Lake	500,000
Twin Lake	250,000
Victoria:	
Lake Dalrymple	500,000
Young's Lake	250,000
Great Lakes:	
Lake Superior	1,000,000
North Channel	4,000,000
Lake Huron	22,750,000
Lake Ontario	750,000

*Eyed eggs supplied, and planted as fry from Sparrow Lake hatchery.

BLUE PICKEREL

FRY

Essex:	
Lake Erie	1,000,000

BROWN TROUT

YEARLINGS

Brant:	
Branch Creek	1,000
Whiteman's Creek	1,000
Bruce:	
Crane River	1,200
Saugeen River	2,300
Sucker Creek	1,000
Vogt's Creek	1,500
Carleton:	
Mississippi River	3,000
Rideau River	1,200
Durham:	
Baldwin Creek	1,200
Baxter Creek	1,500
Cavan Stream	2,400
Elgin:	
Big Creek	2,200
Little Otter	4,000
Frontenac:	
Clyde River	1,500
Grey:	
Big Head River	3,000
Maxwell's Creek	1,200
Potawatami River	1,000
Saugeen River	8,000
Styx River	3,000
Sydenham River	3,900
Weatherspoon Creek	500
Haldimand:	
Rogers Creek	1,000
Halton:	
Bronte River	2,200
Hastings:	
Beaver Creek	1,000
Black Creek	1,200
Little Mississippi River	1,200
Rawdon Creek	2,000
Huron:	
Nine Mile River	1,100
Lanark:	
Mississippi River	3,000
Middlesex:	
Medway Creek	1,200

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

BROWN TROUT—Continued

Muskoka:	
Indian River	1,200
Kahshe River	800
Norfolk:	
Big Creek	1,000
Nanticoke Creek	1,500
Northumberland:	
Bowens Pond	1,200
Glenfurnte Stream	4,600
Oxford:	
Horner's Creek	600
Whiteman Creek	1,500
Perth:	
Halfway Stream	1,100
Upper Avon River	1,100
Peterborough:	
Deer Bay Creek	3,000
Dickson's Creek	1,500
Eel's Creek	1,000
Lower Cavan Creek	600
Mississauga River	1,500
Nogies Creek	1,500
Simcoe:	
Nottawasaga River and tributaries	6,874
Waterloo:	
Alderside Pond	600
Bridgeport Dam	500
Dentinger Creek	1,000
Wellington:	
Gerrie Creek	600
Speed River	1,200
York:	
Humber River	3,000
Private waters (Sale)	510

LAKE TROUT

FRY

Frontenac:	
Buckshot Lake	20,000
Crotch Lake	25,000
Crow Lake	25,000
Desert Lake	15,000
Dog Lake	20,000
Grindstone Lake	10,000
Knowlton Lake	10,000
Long Lake	15,000
Loughborough Lake	45,000
Mackie Lake	10,000
Mississagagon Lake	15,000
Reid's Lake	10,000
Sand Lake	5,000
Schooner Lake	15,000
Sharbot Lake	25,000
Wolf Lake	10,000
Hastings:	
Baptiste Lake	35,000
Bass Lake	10,000
Big Salmon Lake	25,000
Cedar Lake	10,000
Devil Lake	10,000
Dickey Lake	20,000
Eagle Lake	10,000
Gunter Lake	10,000
Jamieson Lake	10,000
Johns Lake	10,000
Lake Papineau	25,000
Lake St. Peter	25,000
L'Amable Lake	10,000
Little Bass Lake	10,000
Little Salmon Lake	10,000
Little Weslemkoon Lake	10,000
Long Lake (Mayo)	10,000
Long Lake (Dungannon)	10,000
Quinlan Lake	10,000
Wadsworth Lake	10,000
Weslemkoon Lake	15,000
Lanark:	
Silver Lake	15,000
Leeds:	
Big Rideau Lake	50,000
Charleston Lake	60,000
Clear Lake	10,000
Indian Lake	10,000
Red Horse Lake	15,000
Lennox-Addington:	
Bark Lake	10,000
Big Lake	20,000
Burns Lake	10,000
Finch Lake	10,000
Little Cedar Lake	10,000
Loon Lake	30,000
Mazinaw Lake	5,000
Otter Lake	20,000
Spring Lake	10,000
Peterborough:	
Catchacoma Lake	10,000
Gull Lake	10,000
Jack's Lake	25,000
Long Lake	10,000
Loon Lake	20,000
Sandy Lake	10,000
Towens Lake	5,000
Trout Lake	10,000
West Lake	5,000
Great Lakes:	
Lake Superior	1,800,000
North Channel	550,000
Lake Huron	1,000,000
Lake Ontario	357,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

LAKE TROUT—Continued

FINGERLINGS

Algoma:	
Achigan Lake	6,000
Axe Lake	11,000
Basswood Lake	6,000
Chiblow Lake	6,000
Clear Lake	18,000
Constin, or Trout Lake	6,000
Cumming Lake	6,000
Duborne Lake	6,000
Grey Trout Lake	6,000
Havilah Lake	6,000
Hawk Lake	5,750
Hobon Lake	5,750
Huston Lake	10,750
Island Lake	6,000
Long Lake	6,000
Loon Lake (Deroche)	6,000
Loon Lake (Borden)	6,000
Matinenda Lake	6,000
Mud Lake	6,000
Patton Lake	6,000
Petanguin Lake	6,000
Pickerel Lake	6,000
Rainbow Lake	6,000
Rand Lake	6,000
Raw Hide Lake	6,000
Red Deer Lake	6,000
Sand Lake	6,000
Stuart Lake	6,000
Tookenay Lake	6,000
Trout Lake (Aweres)	6,000
Trout Lake (24-12)	6,000
Upper Island Lake	6,000
Bruce:	
Dyer Bay	15,000
Gillies Lake	15,000
Cochrane:	
Nellie Lake	6,000
Perry Lake	6,000
Watabeag Lake	6,000
Frontenac:	
Crotch Lake	5,000
Desert Lake	5,000
Dog Lake	5,000
Eagle Lake	5,000
Loughborough Lake	5,000
Lucky Lake	10,000
Sharbot Lake	5,000
Haliburton:	
Bear Lake (Guilford)	5,000
Bear Lake (Glamorgan)	5,000
Big Boskung Lake	10,000
Davis Lake	5,000
Deer Lake	5,000
Drag Lake	10,000
Eagle Lake	10,000
East Lake	5,000
Gull Lake	10,000
Haliburton Lake	10,000
Hawke Lake	5,000
Hollow Lake	10,000
Horseshoe Lake	5,000
Hurricane Lake	5,000
Kashagawigamog Lake	5,000
Kingscote Lake	5,000
Kushog Lake	10,000
Little Boskung Lake	5,000
Long Lake	5,000
Maple Lake	5,000
Moose Lake	5,000
Mountain Lake	5,000
Oblong Lake	5,000
Pine Lake	5,000
Redstone Lake	10,000
Ross's Lake	5,000
South Bay	5,000
Stormy Lake	5,000
Twelve Mile Lake	5,000
Hastings:	
Clear Lake	5,000
Lake of Islands	5,000
LaValley Lake	5,000
Long Lake (Lutterworth)	5,000
Papineau Lake	5,000
Robinson Lake	5,000
Trout Lake (Faraday)	5,000
Kenora:	
Bigstone Bay	40,000
Blue Lake	25,000
Boulder Dam	50,000
Clearwater Bay	90,000
Cul de Sac Lake	25,000
Dogtooth Lake	50,000
Eagle Lake	100,000
Gibbi Lake	50,000
Granite Lake	25,000
Lake of the Woods	72,000
Little Vermilion Lake	50,000
Rice Lake	10,000
Silver Lake	25,000
Thunder Lake	25,000
Trout Lake	25,000
Whitefish Bay	90,000
Willard Lake	35,000
Lanark:	
Rideau Lake	2,000
Lennox-Addington:	
Thirty Island Lake	5,000
White Lake	2,000
Manitoulin:	
Fraser Bay	25,000
Lake Manitou	33,000
Muskoka:	
Bala Bay	15,000
Bella Lake	5,000
Clear Lake	5,000
Fairy Lake & tributaries	5,000
Lake of Bays & tributaries	28,000
Long Lake	5,000
Muskoka Lake	15,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

LAKE TROUT—Continued

Muskoka—Continued	
Oxtongue Lake	5,000
Peninsula Lake & tributaries	15,000
Rebecca Lake	5,000
Rosseau Lake	27,000
Skeleton Lake	10,000
Trout Lake (Watt)	5,000
Vernon Lake	15,000
Waseosa Lake	5,000
Nipissing:	
Aylen Lake	5,000
Martin Lake	6,000
Red Cedar Lake	6,000
Source Lake	10,000
Trout Lake	6,000
Parry Sound:	
Bay Lake	10,000
Bella Lake (Ferguson)	5,000
Bernard Lake	10,000
Big Clam Lake	5,000
Clear Lake (Humphrey)	7,500
Clear Lake (Perry)	10,000
Five Mile Bay	2,000
Horn Lake	15,000
Lake Joseph	5,000
Lorimer Lake	15,000
Maple Lake	10,000
Otter Lake	10,000
Portage Lake	5,000
Round Lake	5,000
Salmon Lake	10,000
Sand Lake	10,000
Spring Lake	10,000
Sucker Lake	5,000
Sugar Lake	10,000
Tea Lake	5,000
Three Legged Lake	10,000
Whitefish Lake	7,500
Renfrew:	
Bark Lake	6,000
Blackfish Bay	5,000
Bradley Lake	10,000
Carson Lake	6,000
Clear Lake	5,000
Cross Lake	6,000
Diamond Lake	5,000
Kaminiskeg Lake	5,000
Long Lake	5,000
Pog Lake	6,000
Round Lake	6,000
Trout Lake	6,000
Wadsworth Lake	6,000
Simcoe:	
Kempenfeldt Bay	20,000
Sudbury:	
Ella Lake	6,000
Long Lake (Broder)	6,000
Long Lake (Harrow)	6,000
Nelson Lake	6,000
Penage Lake	6,000
Ramsay Lake	6,000
Trout Lake	6,000
Wanapitae Lake	6,000
Windy Lake	6,000
Thunder Bay:	
Baril Bay	50,000
Brown Lake	50,000
Jarvis Bay	50,000
Lac Des Mille Lacs	50,000
Lake Nipigon	50,000
McKenzie Lake	50,000
Surprise Lake	10,000
Twin Lakes	50,000
Wawon Lake	25,000
Timiskaming:	
Bartle Lake	6,000
Lake Timagami	6,000
Lake Timiskaming	6,000
Net Lake	6,000
Rib Lake	6,000
Trout Lake	6,000
Twin Lake	6,000
York:	
Lake Simcoe	40,000
Great Lakes:	
Lake Superior	3,675,000
North Channel	250,000
Georgian Bay	3,933,000
Lake Huron	5,501,100
Lake Ontario	50,000

EYED EGGS

Exchange	3,225,000

ATLANTIC SALMON

FRY

For demonstration purposes	7,200

KAMLOOPS TROUT

FINGERLINGS

Bruce:	
Gillies Lake	20,000
Grey:	
Bass Lake	20,000
Muskoka:	
Echo Lake	20,000
Waseosa Lake	20,000

RAINBOW TROUT

FINGERLINGS

Algoma:	
Clear Lake	5,000
Garden River	5,000
Mississagi River	5,000
St. Mary River	2,000
White River	6,440

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

RAINBOW TROUT—Continued

Bruce:	
Sauble River	10,000
Dufferin:	
Nottawasaga River	7,000
Elgin:	
St. Thomas City Reservoir	5,000
Grey:	
Sheppard's Lake	10,600
Haliburton:	
Burnt Lake	5,000
McFadden's Lake	5,000
Muskoka:	
Indian River	7,000
Long Lake	3,000
Norfolk:	
Patterson's Creek	3,000
Simcoe:	
Coldwater River	3,600
Kempenfeldt Bay	7,000
Sturgeon River	3,600
Sudbury:	
Unnamed lake	4,000
York:	
Humber River	5,000
Private Waters (Sale)	3,000

SPECKLED TROUT

FINGERLINGS

Algoma:	
Aubinadong Lake	8,500
Batchewana River	5,000
Big Bear Lake	10,000
Blue Lake	15,000
Camp 12 Lake	8,500
Canoe Lake	10,000
Caribou Lake	15,000
Carp River	3,000
Chippewa River	5,000
Christman Lake	5,000
Deer Lake	4,000
Horseshoe Lake	1,500
Iron River	3,000
Island Lake (176)	4,000
Jobammeghia Lake	2,000
Kashawong Lake	3,000
Kawagama River	4,000
Laughing Lake	7,000
Loon Lake (Deroche)	7,000
Lower Island Lake	1,600
Mashagami Lake	10,000
Moose Lake	400
Pancake River	5,000
Quinn Lake	100
Ranger Lake	8,500
Reserve Lake	10,000
Root River	2,400
Saddle Lake	1,000
Speckled Trout Lake (176)	1,000
Speckled Trout Creek	600
Trout Lake (Aweres)	2,000
Twin Lake	7,000
Upper Island Lake	1,600
Wartz Lake	5,000
Weashkog Lake	10,000
White River	8,000
Cochrane:	
Charlebois Lake	500
Croft Creek	600
Dalton's Lake	500
Dandurand Creek	800
Fuller Creek	500
Grassy River	500
Lake of Bays	800
Legare Creek	800
McIntyre Lake	500
Metagami River	500
Ramsbottom Creek	500
Red Sucker River	500
Rowley Lake	800
Shaw's Creek	400
Waterhen Creek	500
Wealthy Creek	500
Norfolk:	
Vittoria Creek	100
Renfrew:	
Nadeau Creek	175
Thunder Bay:	
Allen Lake	6,000
Blend River	8,000
Cedar Creek	11,000
Cummings Lake	12,000
Current River	24,000
Hilma Lake	2,000
Johnston Lake	2,000
Kaministiquia River	10,000
Lenora Lake	6,000
Lesage Lake	5,000
Lower Pass Lake	4,500
McIntyre River	10,000
McKenzie River	9,000
Mount Stephen Lake	6,000
Neebing River	12,000
North Enders Lake	6,000
Ozone Waters	12,000
Partridge Lake	5,000
Pitch Creek	14,000
Trout Creek	12,000
Whitewood Creek	3,000
Timiskaming:	
Small Spot Creek	800
Private waters (Sale)	250

YEARLINGS

Algoma:	
Achigan Lake	2,000
Achigan Creek	3,000
Agawa River	1,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

SPECKLED TROUT—Continued

Algoma—Continued

Alva Lake	1,000
Anjigami Creek	2,000
Appleby Lake	2,000
Arnill Lake	1,500
Aubinadong Lake	1,000
Aweres Lake	4,000
Bamagesic Lake	2,000
Basswood Lake	2,000
Batchewana River	8,000
Bellevue Creek	1,500
Boyles Creek	2,000
Bridgeland River	4,000
Burrows Lake	2,000
Caldwell Lake	500
Camp Lake	1,500
Camp 8 Creek	1,000
Capp Lake	1,000
Caribou Lake	2,000
Chiblow Lake	2,000
Chippewa River	4,000
Chub Lake	4,000
Clear Lake (Aweres)	2,000
Clear Lake Creek (Scarfe)	1,000
Corston Lake	1,500
Dam Creek	1,000
Dam Lake	4,000
Deer Lake	2,000
Devil Lake	1,000
Diamond Lake	3,000
Driving Creek	3,000
Emerald Lake	1,500
Foot Lake	2,000
Franklin Lake	1,500
Garden Lake	1,000
Garden River	7,000
Goodwin Lake	2,000
Goulais River	3,000
Green Lake	1,500
Harmony River	1,500
Hawk Lake	2,000
Hoath, or Heydon Lake	1,000
Hobon Lake	2,000
Hubert Lake	2,000
Island Lake (Aberdeen)	1,500
Island Lake (176)	2,000
Jobammeghia Lake	3,200
Kennedy Lake	1,500
Kinoch Lake	1,500
Laughing Lake	3,000
Little Blind River	1,000
Little White River	5,000
Lonely Lake	2,000
Long Lake (Jarvis)	1,000
Long Lake (Meredith)	3,000
Loon Lake (Deroche)	3,000
Loon Lake (24 R.13)	2,000
Loon Lake (Kirkwood)	4,000
Loonskin Lake	2,000
Lower Island Lake	7,000
Mashagami Lake	1,500
McCormick Lake	4,000
McCrea Lake	1,500
McGill Creek	1,000
McGrath Creek	2,000
McKinnon Creek	1,500
McVeigh Creek	1,500
Michipicoten River	6,000
Mile 58 Lake	1,000
Miltelm Lake	1,000
Mongoose Lake	2,000
Moose Lake (25 R.13)	2,000
Mountain Lake	500
Mud Lake	2,500
Ned's Lake	1,500
Patton Lake	2,000
Pine Lake (24-R-13)	2,000
Pine Lake (U.)	500
Pine Lake (25-R-11), or Prugh	2,000
Pinkney Lake	1,000
Rand Lake	2,000
Ranger Lake	1,500
Reserve Dam Creek	1,000
Richardson Creek	1,500
Rock Lake	1,000
Root River	7,000
Round Lake (Grassett)	1,500
Round Lake (1 A.)	500
St. Mary River	1,000
Sand Lake Creek	2,000
Sand River	2,000
Sausabic Lake	1,500
Scarbo Lake	1,000
Silver Creek	7,000
Sister Lake No. 1	500
Sister Lake No. 2	500
Speckled Trout Lake (1 A.)	2,000
Speckled Trout Lake (176)	1,500
Speckled Trout Lake (28-R-16)	500
Spruce Lake	1,500
Sucker Lake	2,000
Summit Lake	2,000
Tamarack Lake	500
Tawabinasay Lake	2,000
Tea Lake	2,500
Triple Lake	1,000
Trout Lake (62)	2,000
Trout Lake (167)	1,000
Trout Lake (Aweres)	3,000
Trout Lake Inlet	500
Twin Lakes	5,000
Two Tree River	1,500
Upper Island Lake	7,000
Wallace Lake	500
Wartz Lake	2,000
Waterhole Lake	2,000
Wawa Lake	2,000
White River	1,000
Whitehead's Creek	1,500

Brant:

Moody and Lyons Creek	200

Bruce:

Big Bay Swamp	300
Colpoy Creek	450
French Bay Creek	450
Hill's Spring	450
Judge's Creek	3,900
Nine Mile River	1,800
Pettigrew Spring	450
Sauble River	900

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

SPECKLED TROUT—Continued

Bruce—Continued

Sharp's Spring	1,350
Silver Creek	1,000
Spring Creek (Amabel)	1,800
Spring Creek (Carrick)	900
Stream entering into Paddis Bay	200
Tucker's Spring	900
Vance's Creek	450
Willow Creek	800
Wilson Creek	450

Cochrane:

Liniment Lake	150
Morgan Lake	150
Sesekinika Creek	200

Dufferin:

Boyle's Creek	500
Cemetery Creek	200
Credit River	3,100
Grand River	1,800
Nottawasaga River	2,700
Pine River	1,800
Sanderson Creek	200

Durham:

Ard's Creek	200
Austim's Creek	500
Barton's Creek	100
Beatty Creek	200
Brook's Creek	500
Burk's Pond	1,000
Cain's Stream	1,400
Carscadden Creek	200
Cowper's Creek	200
DeLong's Stream	400
Drew's Creek	200
Goodman's Creek	500
Graham's Creek	100
Harris Creek	200
Hayden's Creek	2,500
Luxton Creek	500
McKindley's Creek	1,000
McLaughlin's Creek	500
Mercer's Creek	200
Miller Creek	500
Muldrew's Creek	100
Orono Park Pond	500
Patterson's Creek	500
Patton's Stream	100
Powell's Creek	200
Quantreuil's Creek	200
Rowe's Pond	200
Sowden's Creek	200
Sowper's Creek	200
Stream at Manvers	1,500
Strong's Creek	100
Thompson's Creek	200

Elgin:

Ball Creek	1,500
Bassell Creek	500
Beaver Creek	500
Buck Creek	250
Campbell Creek	500
Clear Creek	3,000
Deer Creek	500
Eckert Creek	500
Godwillie Creek	500
Grange Hall Creek	500
Howey Creek	500
Leitch Creek	500
Matthews Creek	500
Sisken Creek	500
Venison Creek	3,000
Wolfe Creek	500

Frontenac:

Black Creek	2,400
Camp Lake	2,400
Grindstone Lake	4,800
Knowlton Lake	500
Lucky Lake	250
Sharbot Creek	250
Spring Creek entering Buckshot Lake	500
Trout Lake	500

Grey:

Beatty Saugeen River	3,600
Beaver River	7,800
Beirness Stream	250
Bell's Lake	2,700
Big Head River	1,800
Boyd's Lake	1,800
Boyne River	2,700
Caseman Creek	900
Christies Creek	1,800
Cook's Creek	500
Deer Creek	1,800
English Lake	2,700
Esplen Pond	900
Eugenia Pond	7,400
Ewart's Lake	1,800
Fairbairn Creek	1,800
Ferguson Creek	1,800
Finn's Creek	450
Firth's Creek	2,400
Glen Creek	2,700
Grand River	500
Lawrence Creek	1,350
Manx Creek	900
McCartney's Lake	1,800
McConnell Creek	1,000
Meino Creek	1,800
Miller Creek	1,000
Mitchell's Mill Stream	1,800
Mountain Lake	500
Munshaw Lake	1,800
Nigger Creek	2,500
Oxenden Creek	3,000
Pearce Creek	250
Penner's Creek	450
Riley Creek	250
Rob Roy Creek	1,800
Saugeen River	5,400
Spey River	2,700
Sulphur Springs	200
Sydenham River	3,100
Unnamed Creek (Egremont)	900
Wilcox Lake	900
Williams Spring	3,700

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

SPECKLED TROUT—Continued

Haliburton:

Bear Lake (Livingstone) .	250
Bitter Lake	250
Blue Lake	250
Burnt River	1,200
Catchacoma Lake	600
Diamond Lake	400
Drag River	750
Eagle Lake	500
Fletcher Lake	2,950
Glidden Creek	900
Holland Creek	250
Hollow Lake	2,700
Hurricane Lake	500
Kimball Lake	250
Millichamp Lake	900
Moon's Creek	1,200
Oblong River	1,400
Otter Lake	900
Partridge Lake	250
Poverty Lake	900
Raven Lake	1,800
Redstone River	500
Round Lake	250
Slipper Lake	250

Halton:

Crawford Lake	900

Hastings:

Alexander Creek	1,000
Bartlett Creek	4,400
Brett's Lake	3,400
Carleton Creek	500
Cedar Creek	4,800
Deer River	2,000
Diamond Lake	1,000
East Lake	500
Echo Lake	4,800
Egan Creek	3,400
Foster's Lake	500
Fraser's Creek	1,500
Geen's Creek	1,500
Gin Creek	500
Hinze's Lake	2,400
Horse Lake	500
Little Mississippi Lake ...	500
Little Papineau Lake	1,200
McCormick Lake	3,600
Mud Turtle Lake	500
Nobs Lake	500
Peel's Lake	1,000
Rawdon Creek	4,800
Shaw Lake	500
Shire Creek	3,400
Spurr Lake	1,400
Squire's Creek	4,800
Vanderbeck Lake	4,800
Waterhouse Lake	4,800
York River	500

Huron:

Patterson's Creek	3,000
Porter's Creek	1,500
St. Helen's Creek	250
Wilson's Creek	900

Kenora:

Raleigh Creek	1,500

Lanark:

Clyde River	4,800
Paul's Creek	4,800

Lennox-Addington:

Beaver Creek	4,800
Big Lake	2,400
Burns Lake	250
Graham's Lake	2,400
Green Lake	1,000
Hyde's Creek	4,800
Little Long Lake	250
Rainy Lake	2,400
Rock Lake	250
Ruttan's Lake	2,400
Shiner Lake Creek	250
Smith's Lake	250
Snake Creek	500
Thirty Island Creek	250
Unnamed stream (Denbigh)	250
White Lake	250
Yeoman's Creek	250

Manitoulin:

Blue Jay Creek	1,500
Harris Creek	1,500
Mindemoya River	1,500

Middlesex:

Cody Creek	2,190
Stream—C.13 lot 31 London Tp.	500
Wye Creek	1,000

Muskoka:

Big East River	9,000
Bigwind Lake	900
Bird Lake	900
Black Creek	2,000
Boyne Creek	2,000
Clear Lake (Sinclair) ...	1,200
Clear Lake (Oakley)	900
Creeks running into Fairy Lake	4,000
Creeks running into Peninsula Lake	4,000
Creeks running into Muskoka River	6,000
Creeks running into Vernon Lake	4,000
Eastails Lake	900
Echo Lake	2,700
Fox Lake	3,000
Fraser's Lake	900
High Lake	900
Jessups Creek	2,000
Lake Joseph	2,800
Lake of Bays	5,400
Lake Rosseau	2,000
Little Clear Lake	600
Little East River	3,000
Long Lake (Cardwell) ..	1,105
Long Lake (Franklin) ..	900

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

SPECKLED TROUT—Continued

Muskoka—Continued

Long Lake (Ridout)	900
Loon Lake	900
Loon Lake Creek	350
Martin Lake	900
McReynold's Lake	900
Monahan Lake	900
Muskoka Lake	1,500
Muskoka River	3,000
Oxtongue Lake	900
Oxtongue River	3,000
Pine Lake	900
Poverty Lake	900
Rebecca Lake	1,350
Rill Lake	1,055
Shoe Lake	900
Skeleton Lake	2,500
Split Rock Lake	900
Tooke's Lake	1,055
Wolf Lake	900

Nipissing:

Boat Lake	600
Bourdeaux Lake	300
Cedar Lake	250
Clear Lake (Lyell)	500
Clear Lake (Gooderham)	500
Crooked Lake	100
Frog Lake	500
Gorge Lake	100
Hoover's Lake	900
Little Madawaska River	500
Little Tyne River	100
Long Lake	600
Magnetawan River	200
McNorton Lake	800
Montreauil Lake	500
Nelson's Lake	900
North River	1,000
Red Rock Lake	200
Rocky Lake	500
Rowan Lake	150
Unnamed stream running into McPhee Lake	500
White Lake	150

Norfolk:

Big Creek	1,500
Forestville Creek	1,250
Hay Creek	1,150
Kent Creek	1,500
Nanticoke Creek	1,250
Vittoria Creek	10
Winter's Creek	1,100

Northumberland:

Big Creek	500
Biltmore Creek	3,000
Black's Creek	3,000
Burnley Creek	6,000
Chidley's Creek	100
Dartford Creek	3,000
Dawson's Creek	1,500
DeLong's Creek	500
Duncan's Creek	1,500
Heffernan's Creek	1,000
Little Cole Creek	1,000
Mayhew's Creek	500
O'Grady's Creek	1,500
Pegnan's Creek	2,000
Piper's Creek	100
Quinn's Creek	1,000
Robin's Creek	200
Sandy Flats Creek	2,000
Spring Creek	300
Taylor's Creek	500
Trout Creek	3,000
Valleau Creek	1,000

Ontario:

Black Creek	1,000
Electric Light Pond	500
Elgin Park Pond	500

Parry Sound:

Barrett's Creek	1,000
Bear Lake	200
Beatty Creek	1,250
Begsboro Creek	2,500
Big Clam Lake	200
Birch Lake	1,250
Black Creek (Strong)	2,500
Black Creek (Gurd)	1,250
Cashman's Creek	200
Clear Lake (S. Himsworth)	500
Clear Lake (Perry)	1,800
Clear Lake (Wilson)	125
Clear Lake (Armour)	200
Commanda Creek	2,500
Compass Lake	360
Cummings Lake	250
Deer River (Lount)	450
Distress River	1,250
Dunkers Creek	1,250
Eagle Lake	125
Genesee Creek	3,000
Horne Lake	200
James Creek	360
King Lake	125
Little Lake	100
Little East River	900
Little Pickerel River	125
Long Lake	900
Lynx Lake	400
Magnetawan River	4,310
Owl Lake	200
Pine Lake	100
Ragged Creek	360
Rat Lake	360
Reasin Lake	200
Rock Lake	200
Russell's Creek	1,250
Ryan's Creek	400
Shadow River	1,200
Shell's Lake	100
South River	2,500
Stellar Creek	1,250
Stirling River	1,000
Stoney Lake	500
Three Mile Lake	200
Trout Creek	1,350
Tug-of-War Creek	200

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

SPECKLED TROUT—Continued

Peel:	
Caledon Lake	1,000
Credit River	1,900
Temple Stream	500
Perth:	
Avon River	3,000
Peterborough:	
Big Ouse River	5,000
Buchanan Creek	1,000
Cavan Stream	3,000
Little Ouse	6,000
Mount Pleasant	1,000
Trennum's Creek	1,500
Renfrew:	
Battery Lake	1,000
Black Lake	500
Carson Lake	1,000
Colton Lake	500
Dam Lake	1,000
Eady's Lake	500
Foy's Creek	1,000
Godin's Lake	500
Johnson Lake	1,250
Loche Lake, or Goshen Creek	2,000
Long Lake	1,250
MacKay Creek	1,200
Nadeau Creek	700
Paddy's Lake	2,500
Rock Lake	500
Round Lake	500
Schooner Lake	1,250
Smith Lake	500
Snake Lake	1,250
Spring Creek	1,000
Trout Lake	1,000
Turner Creek	170
Wylie Creek	1,800
Simcoe:	
Black Creek	300
Boyne River	1,200
Corbett Creek	1,800
Greenlaw Pond	100
Mathewson's Creek	1,200
Sheldon Creek	3,000
Silver Creek	2,000
Sturgeon River	7,000
Tenth Creek	500
Willow Creek	1,200
Sudbury:	
Bertrand Creek	1,200
Ella Lake	1,050
Pumphouse Creek	1,000
Sauble River	1,500
Shiner Lake	1,000
Thunder Bay:	
Allen Creek	1,000
Anderson Creek	1,500
Anderson Lake (McTavish)	1,462

Anderson Lake (St. Ignace)	1,500
Arrow River	2,000
Bass Creek	4,000
Bat Lake	2,000
Beaver Lake	2,000
Bertha Lake	1,000
Big Duck River	4,000
Big MacKenzie River	14,000
Boulevard Lake	3,000
Bruley Creek	7,000
Camp Lake	4,000
Cedar Creek	11,000
Centre Lake	1,000
Coldwater River	3,000
Corbett Creek	5,000
Cousineau Lake	1,000
Crockers Lake	1,500
Current River	14,000
Deception Lake	7,000
Echo Lake	3,000
Fall Lake	3,000
Fawn Lake	1,500
Five Mile Lake	1,500
Fog Lake	2,000
High Bluff Lake	500
Hogan Lake	1,500
Kaministiquia River	7,000
Kowkash River	1,500
Langley's Lake	2,500
Little MacKenzie River	2,000
Little Lake	1,000
Little Whitefish River	2,000
Loftquist Lake	14,000
Loon Creek	1,500
Loon Lake	3,000
Loon River	5,000
Lower Pearl River	2,000
Lower Hunter Lake	1,500
Mac's Lake	1,000
Maxwell Creek	1,500
McIntyre River	7,000
McGregor Lake	1,000
McVicar Creek	3,000
Mirror Lake	1,500
Missed Lake	1,500
Moose Lake (near Rossport)	1,500
Moose Lake (McTavish Tp.)	3,000
Morgan Creek	1,500
Neebing River	7,000
Nipigon River	28,000
Oliver Lake	7,000
Paquette Lake	2,500
Pass Lake	7,000
Paysplatt River	3,000
Pearl River	2,000
Pickerel Lake	2,500
Pitch Creek	7,000
Raft Lake	2,000
Randolph Creek	500
Rock Lake	1,500
Rock River	5,000
Round Lake	1,000
Samec Lake	1,000
Sand Lake	2,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

SPECKLED TROUT—Continued

Thunder Bay—Continued	
Sand Lake (near Schreiber)	1,500
Silver Lake	4,000
Silver Islet Creek	1,500
Skillen Lake	2,000
Spectacle Lake	2,000
Spring Creek (Dorion)	2,000
Spring Creek No. 1	2,500
Spring Creek No. 2	2,500
Spring Lake (Adrian)	1,000
Squaw Creek	4,000
Trap Lake	1,000
Trout Lake (Gorham)	7,000
Trout Lake (Stirling)	12,500
Upper Hunter Lake	1,500
Upper Pearl Lake	2,000
Wanogi Lake Creek	7,000
Walker Lake	2,000
Welch Lake	1,000
White Sand Creek	6,500
Whitewood Creek	7,000
Wideman Lake	1,500
Wolf River	3,000
Timiskaming:	
Bartle Lake	500
Belle Isle Lake	500
Crystal Lake	1,000
Fairy Lake	1,500
Gleason Creek	500
Halfway Lake	400
Hooker Creek	400
Jean Baptiste Lake	500
Lake Timagami	2,500
Little Otter Lake	500
Moffatt Creek	500
Munro Lake	400
Pike Creek	1,250
South Wabi Lake	500
Spring Creek	1,250
Trout Creek	500
Ward Creek	500
Watabeag River	500
Welcome Creek	500
Whitney Lake	500
Victoria:	
Corbin's Creek	100
Waterloo:	
Elora Stream	1,500
Erbsville Creek	3,000
Idyle Wild Stream	300
Mannheim Stream	3,000
Welland:	
Effingham Stream	1,500
Sulphur Springs	1,500
Wellington:	
Bell's Creek	3,000
Bunyan Creek	2,400
Esson Creek	500
O'Dwyer's Creek	700
Saugeen River	3,000
Wentworth:	
Spencer Creek	4,000
Twelve Mile Creek	800
York:	
Doan's Pond	500
Private waters—Sale and demonstration	8,626

ADULTS

Algoma:	
Batchewana River	250
Harmony River	250
Heydon Lake	500
Island Lake (Aweres)	330
Lower Island Lake	800
Root River	690
Trout Lake (Aweres)	700
Grey:	
Woodland Spring	200
Thunder Bay:	
Bass Creek	800
Bruley Creek	1,000
Coldwater River	1,000
Current River	1,500
Kaministiquia River	800
Loon Lake	781
Lower Pass Lake	900
Mattawin River	800
Neebing River	800
Pearl River	900
Pitch Creek	1,000
Spring Creek (Dorion)	145
Trout Lake (Gorham)	800
Trout Lake (Stirling)	800
Private waters (Sale and demonstration)	404

WHITEFISH

FRY

Hastings:	
Bay of Quinte	12,000,000
Kenora:	
Eagle Lake	1,000,000
Lake of the Woods	32,132,500
Marchington Lake	250,000
Separation Lake	500,000
Stanzihikimi Lake	250,000
Prince Edward:	
Bay of Quinte	39,000,000
Rainy River:	
Rainy Lake	10,260,000
Thunder Bay:	
Nipigon Lake	225,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
April 1st, 1937, to March 31st, 1938—Continued

WHITEFISH—Continued

York:	
Lake Couchiching	1,400,000
Lake Simcoe	2,200,000
Great Lakes:	
Lake Superior	725,000
North Channel	4,291,400
Georgian Bay	46,240,000
Lake Erie	139,000,000
Lake Huron	20,210,000
Lake Ontario	74,000,000

EYED EGGS

Exchange	4,000,000

HERRING

FRY

Frontenac:	
Palmerston Lake	250,000
Lennox-Addington:	
Weslemkoon Lake	250,000
Peterborough:	
Loon Lake	250,000
Prince Edward:	
Bay of Quinte	1,100,000
Great Lakes:	
Lake Erie	470,000
Lake Ontario	2,800,000
Miscellaneous:	
Demonstration Purposes	150,000

EYED EGGS

Demonstration purposes	30,000

MISCELLANEOUS

Demonstration purposes	3,053

APPENDIX No. 2

ONTARIO DEPARTMENT OF GAME AND FISHERIES
DISTRIBUTION OF FISH ACCORDING TO SPECIES—1933 TO 1937, INCLUSIVE

	1933	1934	1935	1936	1937
Large-mouthed Black Bass					
Fry	....	35,250	130,000	45,000	135,000
Fingerlings	856	4,250	2,153	8,398	4,120
Yearlings & Adults	....	197	27*	....	92
Small-mouthed Black Bass					
Fry	545,000	365.500	696,000	780,000	1,275.000
Fingerlings	25.750	35,750	153,065	69,380	141,900
Yearlings & Adults	3,471	420	3,433	5,202	5,893
Maskinonge—Fry	....	909,500	460,000	274,000	420,700
Perch—Fry	....	95,000,000	53,031,400	46,080,000	9,150,000
Pickerel—Eyed Eggs	....	5.000.000	2,000,000	2,000,000	2,000,000
(Yellow) Fry	20,500,000	278,470,000	229,629,000	300,759,500	263,743,400
Pickerel (Blue) Fry	....	....	....	....	1,000,000
Brown Trout—Fingerlings	483,016	138,000	109,000	147,050	....
Yearlings	674	14,500	9,650	7,290	97,484
Adults	....	689	6*	....	....
Lake Trout—Eyed Eggs	200,000	402,000	....	3,209,400	3,225,000
Fry	1.400,000	1,265,000	7,773,034	4,165,000	4.667.000
Fingerlings	16,012,700	14,045,450	14,564,000	18,253,244	15,782,350
Landlocked Salmon (Ouananiche) (Yearlings)	....	....	13,640	....	....
Atlantic Salmon Fry	....	....	....	....	7,200
Rainbow Trout—Eyed Eggs	....	1,000	....	....	....
Fry	....	4,480	....	....	....
Fingerlings	27,016	312,512	134,075	133,000	105,240
Yearlings	....	25,014	314	3,507	....
Kamloops Trout—Fingerlings	....	....	85,464	....	80,000
Yearlings	....	....	10,796	....	....
Speckled Trout—Eyed Eggs	506.000	....	....	28,600	....
Fry	725,000	....	1,645,000	182,000	....
Fingerlings	5,950,255	6,257,267	5,013,831	1,053,050	384,725
Yearlings	28,237	34,762	35,421	557,270	1,167,073
Adults	1,549	1,652	5,420	6,081	16,150
Whitefish—Fry	372.111,000	376,777,000	296,482,000	428,402,000	383,683,900
Eyed Eggs	....	....	....	112,500	4,000,000
Herring—Fry	22,805.000	17,512,000	43,760,000	56,120,000	5,270,000
Eyed Eggs	....	....	....	....	30,000
Golden Shiners	....	7,000	500	....	....
Miscellaneous	....	....	....	....	3,053
TOTALS	441,325,524	796.619,193	655,747,231**	862,401,472	696,395,280

---

* Exhibition fish

** This total does not include a distribution of 132,646,600 fry and eyed eggs during the five months immediately preceding the said report.

APPENDIX

GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters of

EQUIP

District	No. of Men	Tugs			Gasoline Launches		Sail and Row Boats		Gill Nets	
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
Northern Inland Waters	666	5	50	$ 17,500	148	$ 72,140	283	$ 11,061	560,831	$ 69,930
Lake Superior	422	9	239	50,000	118	52,350	79	4,312	875,425	110,119
North Channel	227	11	219	65,300	58	32,975	62	3,205	603,784	88,900
Georgian Bay	530	16	377	99,638	161	108,447	115	7,192	1,249,740	115,442
Lake Huron	442	17	463	136,695	144	96,180	35	1,680	1,867,623	242,442
Lake St. Clair	139	....	......	....	44	11,266	88	3,975	....	....
Lake Erie	864	31	877	228,500	177	203,995	152	6,852	1,835,460	219,170
Lake Ontario	727	....	......	....	226	108,500	194	7,431	1,357,750	113,364
Southern Inland Waters	423	....	......	....	16	3,075	138	4,547	....	....
Totals	4,440	89	2,225	$597,633	1,092	$688,928	1,146	$50,255	8,350,613	$959,367

APPENDIX

QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Northern Inland Waters	528	1,592,185	280,573	756,353	41,277	1,154,287
Lake Superior	2,246,952	300,816	1,698,585	7,356	5,872	61,832
North Channel	2,790	254,235	644,025	56,727	....	71,271
Georgian Bay	26,896	1,122,895	1,504,194	49,916	....	129,767
Lake Huron	199,772	286,981	1,753,699	806	20,982	197,683
Lake St. Clair	....	355		16,734	500	47,240
Lake Erie	99,447	1,401,016	151	2,750	9,354,687	448,957
Lake Ontario	1,572,911	551,550	204,955	141,368	26,203	21,785
Southern Inland Waters	4,286	8,355	12,811	8,930	....	3,355
Totals	4,153,582	5,518,388	6,098,993	1,040,940	9,449,521	2,136,177
Price per pound	.05	.11	.11	.06	.05	.11
Values	$207,679.10	$607,022.68	$670,889.23	$62,456.40	$472,476.05	$ 234,979.47

No. 3

DEPARTMENT, ONTARIO

Province of Ontario, for the Year Ending December 31st, 1937.

MENT

Seine Nets			Pound Nets		Hoop Nets		Dip and Roll Nets		Night Lines		Spears		Freezers & Ice Houses		Piers and Wharves		Total Value
No.	Yards	Value	No.	Value	No.	Value	No.	Value	No. Hooks	Value	No.	Value	No.	Value	No.	Value	
...	....	....	51	$14,935	64	$2,480	2	$ 2	1,700	$274	....	......	130	$27,555	89	$9,500	$ 225,377
...	....	....	50	25,455	....	......	.....	......	28	134	....	......	39	15,230	30	12,223	269,823
...	....	....	96	38,077	....	......	.....	......	......	.....	....	......	44	13,380	38	18,300	260,137
4	700	$ 525	84	76,660	50	745	.....	......	28,870	4,145	6	23	63	14,785	62	27,755	455,357
...	....	....	137	81,450	....	......	.....	......	11,139	1,387	....	......	71	27,545	34	9,740	597,119
45	10,200	4,791	126	12,300	5	500	3	3	2,850	136	....	......	18	6,150	9	1,625	40,746
50	13,600	8,370	549	306,800	13	1195	2	4	2,550	64	....	......	98	141,375	78	26,290	1,142,615
9	2,710	990	.....	....	733	15,592	30	918	5,133	188	....	......	38	8,405	26	6,540	261,928
62	6,825	7,415	.....	....	233	6,261	49	243	5,650	138	80	580	26	2,140	3	200	24,599
170	34,035	$22,091	1,093	$555,677	1,098	$ 26,773	86	$1,170	57,920	$6,466	86	603	527	$256,565	369	$112,173	$3,277,701

No. 4

FISH TAKEN

Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
43,152	....	15,117	210,972	35,680	3,646	312,048	1,137	4,446,955	$424,656.49
1,637	....	....	131,070	....	580	54,292	....	4,508,992	349,994.95
9,078	....	6,355	6,563	49	2,688	253,677	12	1,307,470	122,294.89
1,041	....	4,388	91,709	4,736	29,059	114,480	6	3.079,087	319,004.49
7,225	....	145,589	506,806	82,105	8,207	58,520	395	3,188,770	300,613.15
9,566	....	31,582	....	81,729	288,753	289,600	249	766,308	41,582.96
13,317	....	1,691,074	....	56.687	337,898	1,258,095	656	14,664,735	826,094.55
8,025	65,987	147,986	....	210,798	153,027	271,877	73	3,376,545	222,022.57
....	8,919	8,035	....	143.908	262,549	292,862	....	754,010	37,899.44
93,041	74,906	2,050,126	947,120	535,692	1,086,407	2,905,451	2,528	36,092,872	....
.40	.07	.05	.06	.08	.05	.03	1.00		
$37,216.40	$5,243.42	$102,506.30	$56,827.20	$42,855.36	$54,320.35	$87,163.53	$2,528.00		$2,644,163.49

APPENDIX No. 5

COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

Kind	1936 Pounds	1937 Pounds	Increase Pounds	Decrease Pounds
Herring	4,298,562	4,153,582	....	144,980
Whitefish	5,790,403	5,518,388	....	272,015
Trout	6,458,730	6,098,993	....	359,737
Pike	1,158,345	1,040,940	....	117,405
Pickerel (blue)	6,899,501	9,449,521	2,550,020	....
Pickerel (dore)	2,393,178	2,136,177	....	257,001
Sturgeon	106,868	93,041	....	13,827
Eels	61,780	74,906	13,126	....
Perch	1,586,959	2,050,126	463,167	....
Tullibee	920,155	947,120	26,965	....
Catfish	609,488	535,692	....	73,796
Carp	1,166,710	1,086,407	....	80,303
Mixed and Coarse	2,802,028	2,905,451	103,423	....
Caviare	1,906	2,528	622	....
TOTALS	34,254,613	36,092,872	*1,838,259	....

* Net Increase

APPENDIX No. 6

STATEMENT OF YIELD OF THE FISHERIES OF ONTARIO
1937

Kind	Quantity Pounds	Price per Pound	Estimated Value
Herring	4,153,582	$ .05	$ 207,679.10
Whitefish	5,518,388	.11	607,022.68
Trout	6,098,993	.11	670,889.23
Pike	1,040,940	.06	62,456.40
Pickerel (blue)	9,449,521	.05	472,476.05
Pickerel (dore)	2,136,177	.11	234,979.47
Sturgeon	93,041	.40	37,216.40
Eels	74,906	.07	5,243.42
Perch	2,050,126	.05	102,506.30
Tullibee	947,120	.06	56,827.20
Catfish	535,692	.08	42,855.36
Carp	1,086,407	.05	54,320.35
Mixed and coarse	2,905,451	.03	87,163.53
Caviare	2,528	1.00	2,528.00
TOTALS	36,092,872		$2,644,163.49

APPENDIX No. 7

ESTIMATED VALUE OF ONTARIO FISHERIES FOR A PERIOD OF TWENTY YEARS
1918—1937 INCLUSIVE

1918	$ 3,175,110.32	1928	$ 3,033,944.42
1919	2,721,440.24	1929	3,054,282.02
1920	2,691,093.74	1930	2,539,904.91
1921	2,656,775.82	1931	2,442,703.55
1922	2,807,525.21	1932	2,286,573.50
1923	2,886,398.76	1933	2,186,083.74
1924	3,139,279.03	1934	2,316,965.50
1925	2,858,854.79	1935	2,633,512.90
1926	2,643,686.28	1936	2,614,748.49
1927	3,229,143.57	1937	2,644,163.49

The Nineteenth Report

# of the

Department of Labour

Province of Ontario

1938

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL NUMBER 10 - 1939.

ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most
Excellent Majesty, 1939.

TO THE HONOURABLE
THE LIEUTENANT-GOVERNOR
OF THE PROVINCE OF ONTARIO.

May it Please Your Honour:

The undersigned has the honour to present to Your Honour the Nineteenth Report of the Department of Labour of the Province of Ontario for the fiscal year ending March 31, 1938.

Respectfully submitted,

N. O. HIPEL,

Minister of Labour.

TABLE OF CONTENTS

Page
Report of the Deputy Minister of Labour 5
Report of the Ontario Government Offices of the
Employment Service of Canada 10
Report of Private Employment Agencies 20
Report of the Factory Inspection Branch 21
Report of the Boiler Inspection Branch 30
Report of the Board of Examiners of Operating Engineers 34
Report of Conciliation and Negotiation 37
Report of the Industry and Labour Board 40
    Industrial Standards Branch 41
    Apprenticeship Branch 44
    Minimum Wage Branch 48

APPENDIX

Page
Industrial Disputes 73

REPORT OF THE DEPUTY MINISTER OF LABOUR

For the Fiscal Year Ending March 31, 1938

TO THE HON. N. O. HIPEL,
Minister of Labour.

SIR:

I have the honour to submit a report on the work of the Department of Labour of the Province of Ontario for the fiscal year ending March 31, 1938.

INDUSTRIAL CONDITIONS

A decided improvement in industrial conditions in Ontario during the fiscal year was indicated in the statistical information compiled by the Dominion Bureau of Statistics. These figures show an increase in the volume of employment by a mean index number of employment of 120.2 for the year, or an advance of 12.2 points as compared with 1937, the base of 100 being the average for the calendar year 1926.

Encouraging features regarding the situation are the facts that the improvement continued throughout the year, the index number for each month being higher than that for the corresponding month of the previous year, and the improvement was also evident in all of the thirteen divisions of industry. The greatest gains were reported for the logging, construction and mining industries, as indicated by advances of approximately 34, 33 and 25 points respectively in the index numbers, and manufacturing generally maintained a high level of activity, especially in the iron and steel industry.

Improvement in industrial conditions was also shown by a decrease in the volume of unemployment among trade union members in the Province. According to calculations made from reports received from trade union bodies, the percentage of unemployment averaged 8.4 for the fiscal year as compared with 11.4 in 1937.

Greater activity in the building trades was indicated by an increase of 10.7 per cent. in the value of building permits issued in Ontario for the fiscal year, the total amounting to $25,531,628.

LEGISLATION

Four of the statutes coming under the jurisdiction of the Minister of Labour were amended at the 1938 session of the Legislature, as follows;—

THE DEPARTMENT OF LABOUR AMENDMENT ACT, 1938;—By this amendment the number of members to constitute the Industry and Labour Board was reduced from five to three, all of whom are to be officers of the Department of Labour. Provision was also made for regulations for the protection of persons engaged in the construction of coffer dams and crib work in water or other places where pressure of sand, water or soil is likely to endanger human life.

THE STEAM BOILER AMENDMENT ACT, 1938;—By this amendment regulations made under the Act need no longer be published in the Ontario Gazette but notice that they have been made is to be gazetted and the regulations are to come into force ten days after publication of the notice, instead of at a date named by Proclamation. It also provided that the inspection fee to be paid to the inspector by owners or manufacturers shall be "such fee as may be prescribed by the regulations for such inspection and the issue of such certificate", instead of a fee of $5.

THE INDUSTRIAL STANDARDS ACT;—By a section of The Statute Law Amendment Act, The Industrial Standards Act was amended to clarify the intent of the Act, that it does not apply "in the mining or agricultural industries".

WORKMEN'S COMPENSATION ACT;—This Act was also amended by a section of The Statute Law Amendment Act to provide that "a sum not exceeding $125 for necessary expenses for transportation and things supplied and services rendered in connection therewith necessitated by the transfer of the body of a workman from the place of death to the place of interment in Ontario". This provision is to have effect as from the first day of May, 1937.

LABOUR DISPUTES

During the year there were 127 strikes and lockouts reported in Ontario, in which 22,749 workers were involved in a time-loss of 294,906 working days.

Approximately 35 per cent. of the time-loss, or 102,812 working days, was due to 23 strikes in the textile and clothing industry, and approximately 24 per cent., or 71,904 days, to 9 strikes in the metal products industry, which includes the automobile firms. On the other hand, there was a decided decrease in the amount of time-loss in the logging industry, which amounted to only 4,800 days. In 1934 the time lost in this industry due to strikes was 26 times this amount, and equalled about 48 per cent. of the total for that year; whereas, this year it was only 2 per cent. of the total. One explanation of this improvement in labour relations in the logging industry is the fact that there were in operation during the year four schedules pursuant to The Industrial Standards Act, providing for wages, hours and conditions of labour satisfactory to both employers and employees concerned.

Settlement of 52 strikes, involving 13,912 workers in a loss of 222,921 days, was effected through compromise; 37, involving 3,833 workers in a loss of 23,056 days, were settled in favour of the workers; and 25, involving 2,894 workers in a loss of 42,388 days, were settled in favour of the employers. Of the remaining strikes, 9 were indefinite in outcome, and 4 remained unterminated at the end of the fiscal year.

CONCILIATION AND NEGOTIATION

The Chief Conciliation Officer and other officials of the Department of Labour conducted negotiations which resulted in the settlement of strikes involving approximately 75 per cent. of the total number of workers involved in strikes in the Province.

The conciliation service has been greatly extended since the appointment of the Chief Conciliation Officer at the beginning of the fiscal year. As far as possible, this Branch of the Department is kept in constant touch with industrial situations likely to result in disputes and, in instances in which the public interest might be unduly affected, the Department takes the initiative in contacting the interested parties, with a view to preventing unnecessary disputes. Effective assistance has been rendered in many cases in which there were threats of strike and satisfactory adjustments have been achieved which have avoided immediate strikes and have removed the probability of future disputes.

Through this contact a valuable link is supplied between industry and the legislation available for treatment of these questions. A result of this service is evident in the logging industry. During the fiscal year there were no strikes in this industry in the four zones where schedules pursuant to The Industrial Standards Act were in force.

DOMINION-PROVINCIAL YOUTH TRAINING PROGRAMME

In September 1937 the Deputy Minister of Labour was called upon to direct the operation of schedules under the Dominion-Provincial Youth Training Programme and temporary appointments were made to provide the staff necessary to organize the project. In co-operation with the Department of Education, classes in technical schools were established in various cities and towns throughout Ontario. An earnest effort was made to induce employers in all skilled trades to enter into contracts of apprenticeship and in this way 188 apprentices were indentured. Classes for technical training were provided for them.

Many employers were also induced to employ and instruct young persons in various occupations which are not considered fully skilled yet require instruction and practice to acquire the dexterity necessary to operate machines safely and to perform other repetition jobs. Some 638 such persons were placed in employment under learnership agreements.

In addition to the 188 apprentices indentured and the 638 learners placed in industry, there were also placed through the Department of Labour 12 male nurses, 18 salesmen, 69 in retail merchandising and 29 in various other forms of employment, making a total of 954 placements under Schedule "E". The registration and selection of young persons placed in employment under the Programme were done by the offices of the Government Employment Service and the Employment Service also made all necessary arrangements for transportation for apprentices sent to training classes away from home.

Under Schelules "A", "B", "C". and "D" 520 placements were made by other Departments of the Ontario Government, making the total of placements 1,474 under the Programme for the first six-month period it was in operation.

ONTARIO GOVERNMENT OFFICES, EMPLOYMENT SERVICE OF CANADA

The improvement in employment conditions during the year resulted in an increase of 22 per cent. in the number of vacancies reported to the Ontario Offices of the Employment Service of Canada, and approximately 92 per cent. of them were filled. The vacancies totalled 156,506; the applications 311,188 and the placements 143,462. Approximately 70 per cent. of the placements were for work of a regular nature, that is work lasting at least two weeks, as compared with 58 per cent. last year. Of this total number of placements, 1,969 were handicapped ex-service men.

This report completes the record of twenty years of service of the Ontario Offices and in that time, from 1919 to 1938, the number of placements totalled 2,867,839.

FACTORY INSPECTION BRANCH

During the year 27,425 inspections and investigations were made by the inspectors of the Composite Inspection Staff, and 5,876 orders were issued relative to various requirements of The Factory, Shop and Office Building Act. In the total number of permits issued, 4,570, there was an increase of 712 as compared with the previous year, and the number of permits in connection with homework increased 848. In 1936 the section of the Act dealing with homework was amended and it now requires all homeworkers throughout the Province, instead of only those in the larger centres, to hold permits, as well as all employers giving out this class of work and who formerly were not required to have permits. Remuneration for this work is now nearer factory wage rates for similar work, because of the requirement that pay for homework must be in accordance with rates set by the Industry and Labour Board.

The estimated value of buildings for which plans were approved in the Branch totalled $9,405,225 for the year, or an increase of $2,615,375 as compared with 1937. Twenty of the 292 plans, having a value of $655,600. were for new companies, which fact indicates a favorable expansion in industry in this Province.

A considerable amount of caisson and coffer dam work was carried on in Ontario during the year, the main portion of which was in connection with the two large international bridges. The caisson inspector kept in close touch with these operations to ensure that the regulations were being complied with in every respect, with the result that there were no fatalities and no cases of caisson disease on the sections of the undertakings coming under his supervision.

BOILER INSPECTION BRANCH

The summary of the work of the Boiler Inspection Branch indicates an increase in the demands for service which taxed the efforts of all the members of the Branch.

The number of designs and specifications of steam boilers and other pressure vessels to be constructed for use in the Province which were surveyed in the Boiler Inspection Branch totalled 418, or an increase of 135 as compared with last year. New pressure vessels which are required to be inspected during construction received 700 first inspections, 521 second and 629 final inspections, or an increase in the total of 476. Used pressure vessels being extensively repaired, sold or exchanged were given 1,310 inspections, or 269 more than in the previous year, and the number of certificates issued by the Branch totalled 2,802, as compared with 2,507 in 1937.

As a result of this greater volume of work, the total monies transmitted by the Branch to the Treasurer of Ontario amounted to $19,599.87, an increase of $4,345.32.

BOARD OF EXAMINERS OF OPERATING ENGINEERS

A greater volume of work than ever before was accomplished by the Board of Examiners of Operating Engineers. The number of candidates examined totalled 2,305, or 661 more than in 1937, and 997 of these were examined at the Toronto Office of the Board where examinations are held daily, and 1,308 were examined at outside centres, chosen for the convenience of the candidates. The certificates issued numbered 17,195, or an increase of 800 over last year, and the net revenue amounted to $29,314.14, an increase of $3,251.61.

In addition to the routine work, the Board undertook the complete revision of the Regulations pursuant to The Operating Engineers Act, which resulted in certain changes and a decided improvement in the general set-up of the Regulations. During the year 405 cases of infractions of the Act were dealt with, 246 of which were satisfactorily handled without resort to court action and 159 were still in process of adjustment at the end of the fiscal year.

INDUSTRY AND LABOUR BOARD

The five members of the Industry and Labour Board were appointed May 25, 1937, as follows;—E. J. Young, Chairman, Miss M. F. Mangan, J. C. Adams, R. B. Whitehead and Fred Bancroft. Towards the end of that year Mr. Bancroft died and Mr. Whitehead resigned to become Ontario Securities Commissioner, and no appointments were made to fill their places. The section of The Department of Labour Act authorizing the establishment of the Board was amended in 1938 to reduce the personnel of the Board to "not more than three members". The Industrial Starndards Act, The Apprenticeship Act and The Minimum Wage Act were designated by the Lieutenant-Governor in Council for administration by the Board.

INDUSTRIAL STANDARDS BRANCH;—Fifty-four official conferences were held during the year and 49 schedules were approved pursuant to The Industrial Standards Act, making a total of 56 schedules in force at the end of the fiscal year. The Board collected a total of $3,069.50 arrears of wages from 13 employers on behalf of 242 employees and the sum of $1,297.53 arrears of wages was paid direct to employees by their employers after intervention of the Board on their behalf.

APPRENTICESHIP BRANCH;—The registration of apprentices during the year totalled 665, as compared with 310 the previous year, and the active apprentices at the end of the year numbered 1,023, as compared with 518 in 1937. Examinations were held for 786 candidates, 673 of whom were engaged in the motor vehicle trade, 99 were hairdressers and 14 barbers. The certificates issued totalled 14,942, as follows;—7,633 in the motor vehicle repair trade, 3,423 in hairdressing and 3,886 in the barbering trade. The revenue amounted to $17,132.83.

MINIMUM WAGE BRANCH;—Pursuant to The Minimum Wage Act, 1937, a minimum wage order covering the textile industry was issued by the Industry and Labour Board and became effective March 1, 1938. It established the minimum wage for men at $16.00 per week and for women at $12.50, with lower rates for juveniles and beginners. The minimum wage orders, issued by the former Minimum Wage Board and which apply to female workers only, remain in force until replaced by orders under the new Act. During the year the sum of $21,180.18 was collected as arrears of wages from 448 firms on behalf of 646 female employees and the wages of 2,183 employees were adjusted to bring them into line with minimum wage orders.

CONCLUSION

It is with regret that we record the death on June 5, 1938, of the Hon. Morrison Mann MacBride, who had been appointed Minister of Labour in October 1937. Always keenly interested in the welfare of the people, Mr. MacBride was a zealous worker for the promotion of harmonious relations in this Province and his death was a great loss to the public service.

The Hon. Peter Heenan, Minister of Lands and Forests, undertook the Labour Portfolio temporarily following Mr. MacBride's death.

The Hon. N. O. Hipel, Speaker of the Legislature, was appointed Minister of Labour in September 1938.

The loss by death of two officials since the publication of the last report was a matter of regret for this Department. Mr. Fred Bancroft, a member of the Industry and Labour Board since its inception in May 1937, died on November 22, 1937. Mr. Bancroft had been actively identified with organized labour for the greater part of his life and had served on Royal Commissions and also on many Boards of Conciliation and Investigation.

Mr. J. M. Brown, who had been Chairman of the board of Examiners of Operating Engineers since 1920, died on October 5, 1937, after an illness of several months. As Chairman of the Board, Mr. Brown was largely responsible for raising the standard of power plant engineering in the Province and, through textbooks which he compiled, rendered a great service to young men entering this profession. He had been superannuated for eight months prior to his death.

Mr. F. B. Walker was appointed Chairman to fill the vacancy caused by Mr. Brown's death.

By an Order-in-Council dated the 18th day of October, 1937, the administration of The Workmen's Compensation Act was transferred from the Department of the Attorney-General to the Department of Labour.

I have the honour to be, Sir,

Your obedient servant,

J. F. MARSH,
Deputy Minister of Labour.

ONTARIO GOVERNMENT OFFICES OF THE EMPLOYMENT SERVICE OF CANADA

GENERAL SUPERINTENDENT—H. C. HUDSON

The improvement in employment conditions reported in 1937 continued throughout the fiscal year 1938, the number of vacancies listed by employers being 22 per cent. above those of the preceding year.

The manner in which this improvement was reflected in the work of these offices will be seen in the statistical table which appears elsewhere in this report, and in the summary of reports from the various offices. At the same time, the Ontario Government continued to employ labour on a large scale, principally on highway construction, and the employment offices had the responsibility of seeing that a proper balance was maintained in the labour supply on each job. The percentage of key men employed by contractors was increased from 15 to 25, and 50 per cent. of the labour was recruited from relief lists or needy cases, and the remaining 25 per cent. consisted of other unemployed men in the district in which the work was carried on.

The co-operation between the Ontario Offices of the Employment Service and the federal Department of Labour continued throughout the year and it is interesting to note that, during the twenty years that the Federal-Provincial Agreement has been in effect, no major difficulties have arisen between the two departments. Service was rendered to another federal Government Department when the offices were asked to co-operate in placing men under the Probational Training Plan sponsored by the Veterans' Assistance Commission.

The employment service rendered the people of Ontario was enlarged by the opening of an office in Woodstock on September 1, 1937. There were two changes among the superintendents. J. W. Ross of Belleville resigned on account of ill health and was replaced by W. D. Ross, and A. W. Taylor, the Guelph superintendent, was superannuated and his position filled by R. J. Robson. On November 15, 1937, J. Fred Marsh assumed control over both the Men's and Women's Departments of the Toronto Office. The offices of Chatham, New Toronto and Sarnia were moved to improved premises during the year.

The Employment Service played a prominent part in the Dominion-Provincial Youth Training Programme, co-operating with the special representatives appointed to canvass employers on behalf of the Programme and assisting in the selection of young men and young women for the various courses.

An idea of the volume of business transacted in local employment offices is seen by the fact that the staff of the New Toronto Office conducted 39,917 employment interviews during the year, and the Port Arthur Office, the staff of which consists of the superintendent and one clerk, placed 12,223 persons in employment, incidentally constituting a record for the office.

The manner in which a local employment office is equipped to meet an emergency was revealed at the time of the unusual ice jam and the collapse of the Suspension Bridge at Niagara Falls. Hundreds of men flocked into the district in the hope of obtaining employment which might be created by the emergency and the local authorities centralized all orders for such help in the local employment office. The result was that men residing in the district were given the preference in the special work of repairing the damage caused by the catastrophe.

With this report the Employment Service in this Province completes its second decade of usefulness and it is no exaggeration to state that few government departments have been more extensively used by the citizens of the Province than the Ontario Government Offices of the Employment Service of Canada. During the period from

1919 to 1938 more than two and three quarter million men and women have been placed in employment. Examining the table which appears below, it will be seen that the period commencing in 1929 brought the largest number of placements of any of the five-year periods. The explanation of this is not the great volume of employment available in 1929, but rather the volume of relief work carried on in 1931 and 1932.

PLACEMENTS MADE IN THE ONTARIO GOVERNMENT OFFICES OF THE EMPLOYMENT SERVICE OF CANADA — 1919 to 1938

1919	75,151		1929	159,519	
1920	135,852		1930	141,841	
1921	107,764		1931	261,243	
1922	143,011		1932	181,533	
1923	167,933		1933	134,735	
		629,711			878,871
1924	149,298		1934	209,870	
1925	135,454		1935	35,777	(5 months)
1926	135,331		1936	140,265	
1927	136,897		1937	119,120	
1928	153,783		1938	143,462	
		710,763			648,494
	Grand Total		2,867,839		

OUTLINE OF ACTIVITIES OF ONTARIO GOVERNMENT OFFICES OF THE EMPLOYMENT SERVICE OF CANADA

More than 400 men were placed on farms by the Belleville Office at wages slighly higher than during the preceeding year. An exceptionally good type of young man was recruited for the forestry course under the provisions of the Dominion-Provincial Youth Training Programme. Nine highway projects in the district absorbed 520 men, and 212 men were placed on the construction of the Hydro-Electric Power Commission transmission lines.

The Brantford Office, combined with the temporary agricultural office at Simcoe, exceeded the record of any other office in filling jobs on farms and the total, 2,552, was higher than in any previous year. The branch office at Simcoe served a useful purpose in centralizing the supply and demand for tobacco workers and placed over 1,000 men on farms. The placement of 120 young men and young women under the Youth Training Programme also reflects credit on the staff of the Brantford Office and the special representatives of the Programme. The majority of the placements were made in the iron and steel industry but 15 other industries are represented in the placement of the 96 young men and the 24 women who secured employment under this programme. An improvement in construction enabled the office to place approximately 200 building tradesmen and a survey of manufacturing establishments also indicates a marked improvement. The superintendent assisted a tobacco company in recruiting its labour supply for a new facory in Norfolk County and the assistance was greatly appreciated by the officers of the company.

The Chatham Office reported that the seasonal demand for harvesting tobacco, sugar beets and tomatoes resulted in the placement of 704 single and 161 married men. The office also supervised the labour supply on various highway construction jobs. An important development was the decision of the City Council to use the Employment Service as a means of selecting men for city work. The office was moved to improved premises at 309 King Street West during the fiscal year. Difficulty was experienced in filling orders for domestic help due largely to the opportunities for employment for young women in the various factories in the district, particularly during the summer and fall.

With placements totalling 7,500, the Fort William Office established the highest record in its history. An increase in bush and construction activities largely accounted for the splendid record made by the office. The placement of 4,832 men in bush operations was more than double that of 1937. Shortly after the conclusion of the fiscal year the death occurred of J. T. Foxton, who had been on the staff since 1924. 1924.

In June 1937 A. W. Taylor was superannuated after eighteen years of service as superintendent of the Guelph Employment Office. He was succeeded by R. J. Robson. The office participated in the Dominion-Provincial Youth Training Programme, placing boys in bakeshops, retail stores and in printing establishments, while girls were placed in textile plants in the district. In addition, 9 young women from Guelph, who were trained under this Programme for household employment, were given jobs through the Guelph Office.

Almost 100 young men and women from Hamilton took advantage of various phases of the Dominion-Provincial Youth Training Programme. The majority of these were girls who received training as household workers, and young men were placed in the classes in carpentry, welding, tool and dye-making and bricklaying. Approximately 500 men were placed on various highway projects in the district. A registration of civilian handicaps was made through the office, and no less than 600 cases came to light as a result. The Women's Department was busy during the year with slightly over 1,000 placements in regular employment and almost 2,000 in casual jobs.

The first complete twelve-month report of the Kenora Office indicates clearly that there was a definite need for employment service in the north-western section of the Province. Almost 2,000 placements were made on highway construction on the trans-Canada and Fort Frances highways, while men were also placed on mining roads, bridge and culvert construction. The larger lumber companies and pulpwood jobbers availed themselves of the service of the office, and a group of young men from Kenora and Fort Frances were placed on a forestry training project under the provisions of the Dominion-Provincial Youth Training Programme. There were 795 men from relief rolls or men certified as needy cases given employment during the year.

In spite of the fact that the better types of farm hands appear to prefer south-western Ontario on account of the higher wages offered, the Kingston Office placed 168 men on farms during the spring and summer months. A very extensive programme of highway construction in the district accounted for 3,542 placements, which were effected in co-operation with the township relief officers.

The early part of the fiscal year in Kitchener brought three rather serious industrial disputes, followed, however, by a period of activity which is reflected in the placements of the office. In co-operation with the special representative of the Dominion-Provincial Youth Training Programme in the district, 83 young men and women were placed under apprenticeship indentures and learnership agreements within the area, 2 young men were sent to the mining school at Haileybury and 2 to the horticultural class at the Ontario Agricultural College at Guelph. Eighteen of the graduates of the first class at the Braeside Home Training School were placed in Waterloo county. The Women's Department of the Kitchener Office surpassed the previous year's placements, although a shortage of experienced domestics was noticeable throughout the year.

Wage rates in the field of agricultural employment were higher than during 1937 in the district covered by the London Office. There was an increased demand for farm help, and it is interesting to note that 90 married couples were placed on farms during the year at wages ranging from $300 to $400 per annum with free house, garden, etc. The harvest wages for single men ranged from $30 to $35 a month, with occasional orders at $40 a month and board. The efficiency of the London Office in recruiting men was demonstrated when 150 labourers were required on short notice. The local radio station kindly announced that these jobs were available and the order was filled within a few hours of the time it was received. Slightly over 300 men were placed on road projects in the district and 191 men were selected by the office as extra helpers during the Christmas rush at the local post office. Full co-operation was given in the Youth Training Programme and 34 placements were made. Reporting on the Women's Department, the superintendent pointed out the increasing difficulty of assisting middle-aged women in securing employment of any kind and stated that even in the domestic field the demand is strictly limited.

The New Toronto Office was moved to improved premises at 131 Sixth Street, and the advantages of a location off the main street were immediately apparent. During the first eight months of the fiscal year, the office was extremely busy with its farm labour campaign, Youth Training Programme, highway and other public works projects, and in rendering service to private employers who were increasing their staffs with the recovery in general business. Later, however, there was a pronounced recession in the activities in all these fields. In cooperation with the Veterans' Assistance Commission, the local office succeeded in placing a relatively large number of ex-service men who would have found it difficult to find employment had it not been for the publicity given to the subject by the advertising programme of the Committee. Contractors working on the unemployment relief projects in the New Toronto district expressed themselves as entirely satisfied with the type of service rendered by the office, from which they were required to obtain 75 per cent. of their labour, in accordance with the terms of their contracts. It is interesting to note that the three members of the staff recorded a total of 39,917 individual interviews during the year, or an average of 133 contacts with unemployed men each day. This figure indicates the extent to which the local office is utilized by men in search of work.

A 10 per cent. increase in the number of placements in the Niagara Falls Office, as compared with the fiscal year 1937, was a reflection of the improved employment conditions. An outstanding development in the district was the increase of 100 per cent. in the personnel of firms engaged in the manufacture of aeroplanes and parachutes. The local office partipated in the selection of young men and women for training in the various projects conducted under the Dominion-Provincial Youth Training Programme. In January extraordinary ice and wind conditions caused the collapse of the International Bridge and the flooding of the Ontario Power Company's plant at the base of the Horseshoe Falls. The local employment office was asked to assume complete control of the selection of men for the emergency work involved in repairing the damage and more than 200 men, carefully selected with regard to their need for the job, were placed between January 27 and March 31. Men applying for jobs at the Ontario Power Plant had their attention called to a notice reading as follows:—"No help wanted. Apply at Ontario Employment Office."

Approximately 4,000 men were employed in 40 camps operated by lumber companies in the vicinity of the North Bay Office. A large percentage of these men were placed through the efforts of the superintendent, following a conference called by the Minister of Labour between representatives of the Department and the Lumber-men's Association. More than 50 per cent. of the placements of the office, however, were in connection with the 25 highway contracts supervised from North Bay. In addition, workers attached temporarily to the staff of the office kept in constant touch with the contractors in order that their needs might be supplied promptly. A significant development in the North Bay district, which the superintendent describes as "Quintupletland", has been the springing up of new hotels, tea-rooms, sleeping cabins and additions to restaurants and lunch counters as a result of the influx of tourists. The demand for help in this connection was double that of the previous year. The office supervised the selection of 96 young men for training in forestry under the Dominion-Provincial Youth Training Programme.

The Home Improvement Plan was responsible for the construction of many new residences in Oshawa and every qualified building mechanic was employed steadily between April and October. The superintendent commented on the fact that, while he had registered approximately 100 men disabled due to advanced years or physical disability, employers almost invariably asked for able-bodied men even for such jobs as watchmen. This greatly complicated the problem of placing handicapped men.

With farm placements approaching the 1,400 mark, the Ottawa Office exceeded all previous records in caring for the needs of the farmers in the district. The demand was primarily for single men but it was found possible to place a few married couples. In co-operation with the authorized representatives of organized labour, building tradesmen were supplied to contractors in the field. The district representatives of the Dominion-Provincial Youth Training Programme made the Ottawa Office of the Employment Service their headquarters and the co-operation was found mutually beneficial. In selecting men for highway work, the Ottawa Office co-operated with the reeves, mayors and relief officers of the district in which the contracts were being carried out. The outstanding feature of the Women's Department was the inauguration of the Ottawa Home Service Training Centre. The Director of the Women's Department took an active part in the selection and placement of girls for this form of training. In addition, the Women's Department co-operated with the High School of Commerce in a two weeks' intensive course in salesmanship under the Dominion-Provincial Youth Training Programme. Following this training, 20 of the young women who took the course obtained temporary employment on the sales staff of local department stores during the Christmas rush. The federal representative in the Ottawa Office recorded 1,686 interviews with employers during the year on behalf of handicapped ex-service men and placed 237 veterans in employment in 43 different trades and occupations. In addition, 21 placements were made under the Probational Training Plan in co-operation with the Veterans' Assistance Commission.

Seven contractors in the Pembroke district called on the local office for 583 men during the year. In addition, 375 men were placed at the military camp and on various forestry projects, the selection being made in all cases in co-operation with the local relief authorities. Almost 400 men were chosen from the files of the Pembroke Office by the lumber companies operating in the district, and a forestry camp under the provisions of the Dominion-Provincial Youth Training Programme absorbed 20 young men. Partly as a result of the various projects outlined above, relief in Pembroke was at a lower ebb than at any time since 1931.

An employer in Peterborough addressed a letter to the superintendent, an extract from which reads as follows;—"We wish to thank you for your co-operation in securing suitable help whenever it was available and in keeping us informed as to trained workmen seeking employment." The extract is typical of the attitude of Peterborough manufacturers towards the assistance rendered to them by the local employment office. As in other centres, highway contracts in the district were supervised by the superintendent in co-operation with voluntary representatives at points distant from the city. Two somewhat unusual placements were made. The first was a young man to play the part of Santa Claus in a department store and the second a young man, who was both deaf and dumb, and who was placed on an estate where he had the responsibility of taking care of poultry and attending to the routine work in the orchard. The local newspaper, like other newspapers throughout the Province, co-operated in giving frequent and intelligent publicity to the work of the Service.

In co-operation with the district forester, the Port Arthur Employment Office placed 30 young men from the head of the Lakes in forestry camps where they were taught the scaling of timber. The construction of a landing field for the Trans-Canada Airways, various hydraulic projects and numerous highway jobs absorbed most of the supply of construction labour during the year. No less than 14,100 men applied to the Port Arthur Office for employment and of this number 12,023 were placed in regular or casual employment. This constitutes a record for the office.

The statistical report of the St. Catharines Office showed an increase of 1,314 placements over the figures for the previous year. Employers made 4,439 requests for help, or an average of 15 per day.

In order to handle the increased volume of business incidental to the construction of the new mental hospital in St. Thomas, Frank Kelly, a member of the staff of the Toronto Office, was assigned temporarily to duty in St. Thomas. Mr. Kelly also assisted the superintendent in placing men required by bridge and highway contractors in the district.

The Sarnia Office placed 540 farm hands in jobs, which number represented a considerable increase over the previous year. The office also assumed the responsibility for the selection of labour on three highway jobs in the district and for the preliminary work on the new international bridge. One of the companies engaged in construction of the bridge expressed its entire satisfaction with the service of the Sarnia Employment Office which it had used for the first time in connection with this project. More than 600 men were placed in the transportation field, including stevedores, labourers, marine help and mechanics. The office co-operated in the Youth Training Programme, a forestry camp being located at Ipperwash. In addition, close co-operation was maintained with the Home Training Centre in Sarnia. One student was sent to each of the courses in male nursing and mining. During the year the office moved to 217 Front Street North.

The Sault Ste. Marie Office reported the best year in the past fifteen, the placements totalling well over 3,000. Highway and bush operations accounted largely for the increase in placements and 45 young men were selected for training in a forestry camp in the district. As in the case of Sarnia, activity in marine transportation resulted in many jobs for local men.

The Stratford Office superintendent submitted in his report a graded rate of pay ranging from $10 in December and January to $30 during the months from June to October inclusive. The schedule was designed to simplify payment of farm labour, in accordance with the farmers' ability to pay throughout the various seasons of the year. Every encouragement was given to the Youth Training Programme, which received much publicity through an address broadcast by the Deputy Minister of Labour at the beginning of the campaign, and by other officials of the Department. The supplying of labour for an extensive programme of highway work was handled by the office.

Sudbury increased by 860 the number of placements made this year as compared with last year, due to activity in mining, logging and highway work. Eighty-two young men carefully selected from needy families were given training in forestry under the provisions of the Dominion-Provincial Youth Training Programme.

Timmins is not generally regarded as a farming district, but the office was sucessful in placing 160 farm hands, as compared with 98 in the preceding year. Approximately 400 men secured employment on highway projects in the district which offset a reduction in the field of mining.

The placement of 2,740 farm labourers with more than 1,300 individual employers indicates the activity in this section of the Toronto Office. It is interesting to note that these men were sent to 26 different counties. Reporting on the various activities of the office, the superintendent writes in part;—

"During the fiscal year a major change took place in the work of the Handicap Department. In May 1937 the Department was asked to take over the direction of the Probational Training Plan inaugurated by the Veterans' Assistance Commission. This necessitated the Handicap Department handling men other than disabled applicants, as any ex-service man who saw service in an actual theatre of war is eligible for benefits under the Plan, and thus greatly increased the work of this Department. To date 1,250 registrations have been made under the Plan and there were innumerable interviews with applicants who were not registered because they could not produce documentary evidence of service or were otherwise ineligible. Two hundred and sixty-nine placements were made, approximately 70 per cent. of which resulted in the trainee being permanently placed in employment. In addition, a large number of offers to train applicants were investigated but were not recommended by this Department for various reasons. The closest co-operation was maintained between this Department and the local honorary committee of the Veterans' Assistance Commission and the relations between the two offices are most cordial. A weekly summary of ex-service men placed in employment was supplied the honorary committee by the employment office, as well as a monthly report of all activities under the Probational Training Plan.

"The regular work of the Handicap Department was carried out during the year and placements showed a substantial increase over last year, despite the business recession experienced during the last six months. Registrations increased approximately 36 per cent. and 346 obtained by this Department were transferred to the general section of the office.

"During the year the Youth Division was completly reorganized. In addition to the usual placement work, 263 young men and boys were placed in training under the Dominion-Provincial Youth Training Programme."

On November 15, 1937, the Women's Department was placed under the control of Mr. Marsh, who is now responsible for the direction of the whole Toronto Office. Certain staff changes were made with a view to improving the efficiency of the Service.

Slightly higher wages in connection with farm work resulted in an increase in the number of farm placements made by the Windsor Office. Commenting on the Home Service Training Centre established in Windsor, the superintendent reported as follows;—

"Early in October 1937 a training school for domestics was opened in Windsor and 18 girls were given a three-month course. With the exception of one girl who was ill, all were placed in good positions. In January 18 more girls entered the training school and the majority of them have positions waiting for them when they graduate in April. This office has co-operated with the Committee to the fullest extent".

Close co-operation was maintained with the local office of the Veterans' Assistance Commission, resulting in 57 men being placed in permanent employment, 7 in semi-permanent and 74 in casual work.

A branch of the Employment Service was opened in Woodstock on September 1, 1937, under the direction of R. E. Poste, with office located at 12 Finkle Street. In spite of the fact that the season was almost over, the office succeeded in placing 479 farm hands before March 31. Every effort was made to interest employers in the Youth Training Programme and meetings were addressed by the General Superintendent, representatives of the Programme and others. The office was assigned the responsibility of selecting men for highway and bridge projects throughout the district. The demand for qualified cooks-general exceeded the supply but 75 placements were made during the seven-month period.

ONTARIO GOVERNMENT OFFICES—EMPLOYMENT SERVICE OF CANADA

APPLICATIONS AND PLACEMENTS OF HANDICAPPED EX-SERVICE MEN FOR FISCAL YEAR 1938.

		PLACEMENTS			
District	Applicants	Casual	Regular	Total	Cancellations
Ottawa	1,049	62	173	235	559
Kingston	139	—	4	4	108
Peterborough	8	—	—	—	2
Toronto	4,046	1,132	248	1,416	2,123
Hamilton	654	145	69	214	304
Brantford	147	11	29	40	69
St. Catharines	36	4	6	10	9
London	157	10	9	19	110
Windsor	51	15	16	31	2
Fort William	1	—	—	—	1
	7,288	1,379	590	1,969	3,287

ONTARIO GOVERNMENT OFFICES — EMPLOYMENT SERVICE OF CANADA

APPLICATIONS, VACANCIES AND PLACEMENTS, DURING FISCAL YEAR 1938

	Vacancies	Applicants	Placements		Provincial and Interprovincial Transfers	
			Regular	Casual	In	Out
Belleville	2,429	3,566	1,416	1,009	4	—
Brantford	4,854	7,195	3,985	837	19	56
Chatham	3,095	4,031	1,610	1,457	6	7
Fort William	7,650	8,437	6,505	1,058	11	—
Guelph	1,304	2,574	888	231	26	1
Hamilton, (Men)	4,861	12,925	3,274	1,559	13	82
Hamilton, (Women)	3,347	5,623	1,006	1,981	6	4
Kenora	3,135	4,814	2,539	595	1	—
Kingston	5,715	6,393	4,943	525	6	2
Kitchener	3,075	5,915	1,657	1,225	19	38
London, (Men)	5,378	8,001	3,785	1,569	6	36
London, (Women)	2,501	3,645	1,150	1,268	1	—
New Toronto	1,801	5,674	1,513	279	9	—
Niagara Falls	2,577	4,276	1,513	833	74	69
North Bay	6,967	7,407	5,130	632	222	867
Oshawa	3,981	6,028	764	3,158	57	4
Ottawa, (Men)	4,484	12,784	3,810	666	3	78
Ottawa, (Women)	3,267	7,486	1,877	1,286	3	—
Pembroke	3,147	4,080	1,423	990	734	224
Peterborough	2,793	3,873	2,341	368	84	1
Port Arthur	14,100	12,168	11,765	258	2,076	5
St. Catharines	4,932	6,351	2,369	1,999	99	67
St. Thomas	2,133	2,569	1,585	465	23	—
Sarnia	3,370	4,329	1,672	1,677	8	3
Sault Ste. Marie	3,896	6,920	2,507	914	363	5
Stratford	1,738	4,923	1,583	135	20	14
Sudbury	4,093	9,380	3,284	474	183	75
Timmins	8,973	14,511	4,020	2,923	1,633	101
Toronto, (Men)	13,587	81,449	9,850	3,708	2	424
Toronto, (Women)	16,224	28,638	4,945	6,850	—	109
Windsor, (Men)	3,033	7,245	1,686	1,307	16	37
Windsor, (Women)	3,453	5,622	1,806	1,590	—	—
Woodstock	1,513	2,356	1,018	417	33	9
Totals	156,506	311,188	99,219	44,243	5,760	2,318

LIST OF ONTARIO GOVERNMENT OFFICES OF THE EMPLOYMENT SERVICE OF CANADA AS ON NOVEMBER 1, 1938

H. C. HUDSON, GENERAL SUPERINTENDENT ....

Adelaide 1211—Local 591 Residence: Junction 0939

CITY	ADDRESS	TELEPHONE	SUPERINTENDENT
Belleville	19 Campbell St.	887	W. D. Ross
Brantford	239-241 Colborne St.	361	M. H. MacBride
Chatham	307 King St. W.	236	H. C. Garner
Fort William	300 Victoria Ave.	S-2561	A. H. Power, Jr.
Guelph	116 Carden St. E.	1599	R. J. Robson
Hamilton (Men)	40-50 John St. N.	2-1126	W. A. Selkirk
(Women)	40-50 John St. N.	2-1128	W. A. Selkirk
Kenora	Cor. 2nd St. & 4th Ave.		G. Ritchie
Kingston	41 Clarence St.	1178	H. F. Mooers
Kitchener	41 Queen St. N.	1612	M. H. Phillips
London (Men)	180 King St.	Metcalf 5296	H. Wray
(Women)	180 King St.	Metcalf 5295	W. Wray
New Toronto	131 Sixth St.	Zone 6-499	H. N. Reid
Niagara Falls	609 Erie Ave.	1221	H. P. Hanan
North Bay	51 Main St. E.	1112	H. A. Desjardins
Oshawa	64 King St. E.	547	Rae Halliday
Ottawa (Men)	132 Queen St.	2-1739	Geo. Hamilton
(Women)	132 Queen St.	2-3158	Geo. Hamilton
Owen Sound	226 Ninth St. E.	623	A. J. Kreutzweiser
Pembroke	167 Pembroke St. E.	375	P. J. Hennessy
Peterborough	165 King St.	571	W. H. L. Mellis
Port Arthur	193 Park St.	176	A. C. Wood
St. Catharines	146 King St.	1269	L. P. Cunningham
St. Thomas	498 Talbot St.	2901	D. A. McIntyre
Sarnia	217 Front St. N.	1154	A. E. Palmer
Sault Ste. Marie	Courthouse Bldg.	1063	W. E. Hunt
Simcoe	Peel Street	76	J. D. Freeman (Clerk)
Stratford	80 Ontario St.	2258	G. H. Langan
Sudbury	24 Dufferin St.	359	A. E. Woods
Timmins	25½ Fourth Ave.	218	D. Murphy
Toronto (Men)	79 Lombard St.	Wav. 4581	J. Fred Marsh
(Women)	77-79 Richmond St. E.	Wav. 4581	J. Fred Marsh
Windsor	365-369 Pelissier St.	3-1646	A. J. Cooper
Welland	109 Division St.	664	M. Dickie
Woodstock	12 Finkle St.	197	R. E. Poste

PRIVATE EMPLOYMENT AGENCIES

Three licensed private employment agencies transacted business in the Province during the year, according to reports received in this Department. Details of the placements of these agencies are as follows:

	PLACEMENTS		
	Men	Women	Total
North Bay—			
Canadian Placement Agency, B. Ferro	453	—	453
Sudbury—			
Messrs. P. J. & F. W. McAndrew	974	—	974
Toronto—			
Metropolis Agency	170	1,003	1,173
Totals	1,597	1,003	2,600

No one was prosecuted under the Employment Agencies Act during the fiscal year ending March 31, 1938.

FACTORY INSPECTION BRANCH

CHIEF INSPECTOR, DEPARTMENT OF LABOUR—J. R. PRAIN

The fifty-second report of the Factory Inspection Branch covering the fiscal year 1938 will give a clear idea of the activities of the Composite Inspection Service of the Department of Labour.

Since the service was inaugurated in 1936 additional duties have been assigned to the staff, and there is no doubt that it has done away with much of the duplication and its irritating effect on employers of labour. Factory inspection takes up the major portion of the inspector's time, as there is an ever-present need for vigilance in order to keep industrial accidents down to the lowest possible minimum.

Many investigations were necessary under The Industrial Standards Act, The Apprenticeship Act and The Minimum Wage Act, and invariably resulted in important data being available for the officials entrusted with the enforcement of these acts, thereby enabling them to solve some knotty problems. As usual the Branch assisted in the enforcement of The Steam Boiler Act and The Operating Engineers Act.

In addition to the regular inspection service, it is interesting to report that, at the request of the Provincial Secretary's Department, a yearly survey is made of government institutions to ensure that machinery is carefully guarded and other hazards controlled so that the inmates might be protected as far as possible against accidents. Inspection service is also rendered the Technical and Vocational Schools in Toronto, where many machine tools are used by the students. These machines are dangerous unless properly guarded and the inspection assists very materially in reducing the accident hazard.

It will be noted in the statistical section of this report that there was an increase in the number of males employed, as compared with last year, but a decrease in the number of females. This might be accounted for by the improvement in the metal trades in which mostly men are employed. There is shown a marked increase in the number of permits issued to homeworkers, indicating that the legislation of 1936 has had its effect and the prices being paid give this class of worker remuneration much nearer the wages paid in factories for similar work. The amendment in 1936 to The Factory, Shop and Office Building Act requires all homeworkers, as well as all employers giving out work to be done at home, throughout the Province, instead of those only in the larger centres, to obtain permits and the pay for homework must be in accordance with rates established by the Industry and Labour Board.

The number of industrial accidents, fatal and non-fatal, increased slightly, but cases of industrial diseases decreased in number. In this connection our appreciation is again expressed to the Industrial Hygiene Division of the Department of Health for their co-operation and assistance during the year.

CAISSON AND COFFER DAM WORK

A considerable amount of caisson and coffer dam work was carried on in Ontario during the period under review in connection with bridge construction, consisting mainly of the two large international bridges and numerous highway structures located throughout the Province. These required many visits by the inspector in charge of this type of work to Huntsville, Fauquier, Port Stanley, Ingersoll, Burk's Falls, Belleville, London, Strathroy and Thamesford. Considerable work in open sewer construction and tunnelling was also undertaken and two compressed air tunnelling jobs were in operation in connection with a large water main in Toronto. On the two large international bridge jobs it is gratifying to note that not one fatal accident occurred on work supervised by this Department. Only two serious lost-time accidents occurred on one of these bridges, one being a fall which confined the injured man to hospital for three months and the other requiring an absence of several weeks. On the other bridge the most serious accident reported was the loss of a little finger by a worker turning over steel on the ground.

We had at all times the utmost co-operation from contractors on these jobs. Our Department was asked to investigate the necessity for installing safety nets under the main span of the Blue Water Highway Bridge during construction. After investigation it was suggested that a motor boat be kept on the river down stream from the bridge and fitted with belts and first aid equipment. The company readily agreed to this and a motor boat was in service during all hours of construction for rescue purposes only. The same arrangement was made in connection with the Thousand Island Bridge. On smaller bridges in the Province we also had co-operation from the contractors. It is our experience that the longer contractors have been in the construction business, the readier they are to provide adequately for the safety of their workmen. Small contractors who are new in this line of business do not seem to realize the danger in coffer dam construction and often undercalculate the pressure to which timber is subjected while excavation work is in progress.

An unfortunate catastrophe occurred in the collapse of a coffer dam at Port Stanley, resulting in the death of eight workmen and injuries to five others, two of which were serious. This Department had not been informed of this proposed job and at the time of our inspector's visit three months before the disaster, the excavation was complete and almost ready for the pouring of the foundation concrete. Subsequent to this visit, the plans for the pier were changed, increasing the size considerably. A new coffer dam was constructed to take care of these changes and again the Department was not notified. The coroner's jury investigated this accident and brought in the verdict "Cause of accident unknown; cause of death, accidental" and the rider recommended that in all future contracts for such work a clause be inserted requiring the contractors to notify the Department of Labour of their intention to construct a coffer dam or any type of caisson. Since that verdict all contractors before commencing operations have submitted plans showing the system of procedure to be undertaken.

The extremely hazardous nature of this type of construction work requires continued vigilance on the part of contractors, workmen and inspectors to ensure that all precautions will be taken to safeguard life. In tunnelling operations hazards are always present, particularly where compressed air is required and it is fortunate that no accidents occurred on this type of work. No cases of 'bends' or caisson disease were reported among men working under high pressure, nor among divers working in air pressure above 40 pounds, employed on the portion of the international bridge coming under the jurisdiction of this Department. The strict enforcement of the various stages of decompression as set forth in the regulations was no doubt responsible for the lack of caisson disease.

PLANS FOR NEW BUILDINGS

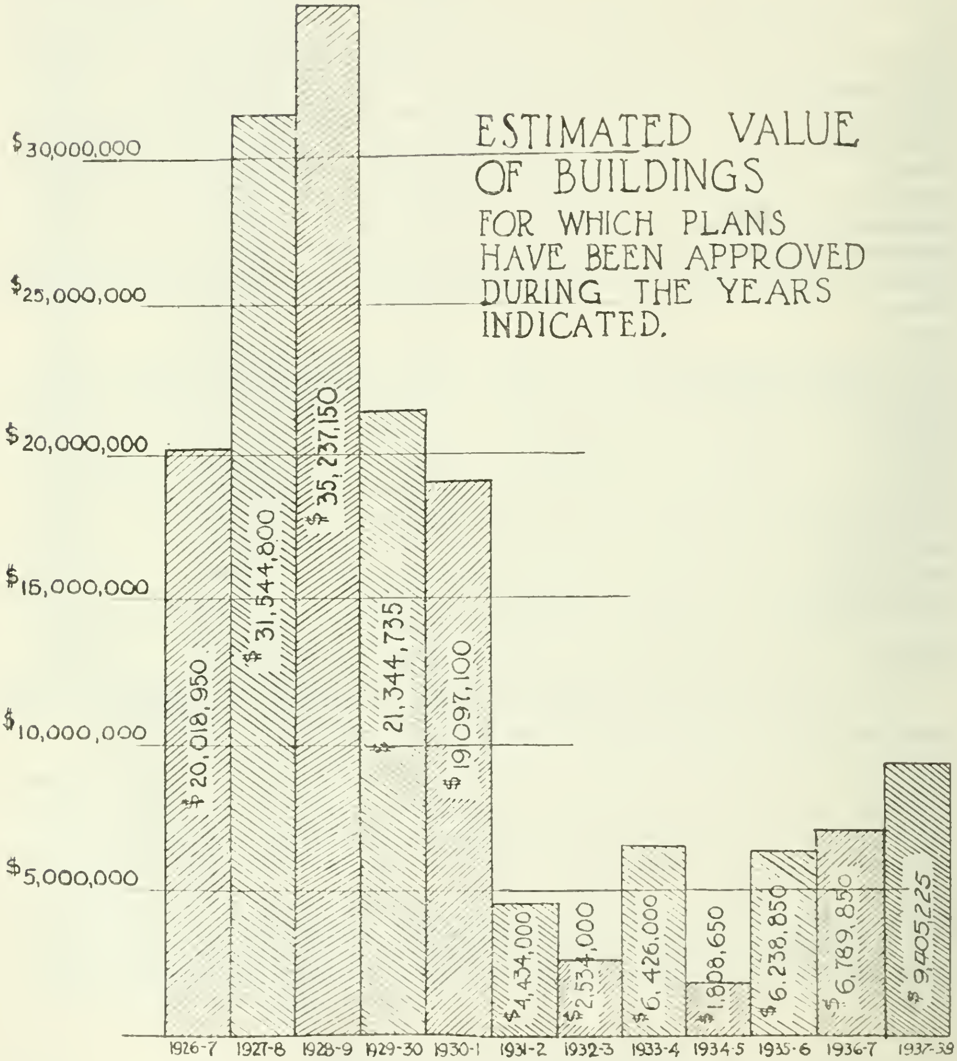
The estimated value of buildings, plans for which were approved by this Department during the year 1938, amounted to $9,405,225, or an increase of 38.6 per cent, as compared with the previous year. The fact that the increase in the number of plans was only 12.3 per cent. indicates that some of the units involved great expenditures. Twenty of the 292 plans were for new firms and had a value of $655,690, or 6.96 per cent. of the total value, thus indicating a favourable expansion in industry within the Province.

The accompanying table shows the number and value of plans according to industries. The automobile industry, which is listed under 'conveyance', showed the greatest value and was also responsible for many other extensions listed under 'metals'.

CLASSIFICATION BY INDUSTRY OF PLANS APPROVED

Trade or Industry	Number of Plans	Value of Plans $	Percentage of Total Value
Chemical	30	365,800	3.89
Clay, glass and stone	5	61,000	.65
Clothing	5	119,500	1.27
Conveyance	9	2,368,000	25.10
Food	57	1,117,450	11.91
Garages	10	322,900	3.50
Laundries and cleaning	8	70,500	.75
Leather	6	39,800	.45
Lumber	4	29,100	.30
Metals	47	778,200	8.28
Offices	28	674,575	7.18
Paper	9	142,000	1.51
Printing and publishing	3	1,251,000	13.34
Rubber	4	118,500	1.26
Shops	20	200,450	2.13
Textiles	22	1,138,200	12.11
Tobacco	3	248,000	2.64
Warehouses	9	219,700	2.34
Wholesale	4	68,000	.73
Woodworking	3	62,000	.68
Unclassified	6	10,550	.01
Totals	292	$9,405,225	100.00

The following diagram indicates the value of buildings for which plans were approved by the Factory Inspection Branch for the past twelve fiscal years.



NOTE:- OWING TO THE CHANGE OF THE DATE OF THE END OF THE PROVINCIAL FISCAL YEAR FROM OCT: 31st TO MAR. 31st THE PERIOD GIVEN ABOVE AS 1934-5 REPRESENTS ONLY FIVE MONTHS.

The following is the distribution of the services rendered by the inspectors of the Composite Inspection Branch:

	1937	1938	
Factory Inspection Branch:			
First Inspection	14,229	13,762	
Second Inspection	3,015	2,809	
Special Investigations	2,204	103	
Visits re homeworkers		1,143	
Visits re exhibitions		93	
			17,910
For			
Minimum Wage Branch			2,445
Industrial Standards	7,499		1,121
Apprenticeship Branch	1,613		3,116
Main Office	694		809
Boiler Inspection Branch			1,393
Operating Engineers Board			631
Total Inspections			27,425

In addition there were investigations of accidents and the usual visits, office calls and conferences incidental to inspection

Employees in the above industries, mercantile establishments and office buildings numbered 341,421, classified as follows:—

Year	Males over 16	Males 14-16	Females over 18	Females 14-18	Total	Children under 14 dismissed
1937	232,923	48	104,837	1,736	339,544	8
1938	238,360	22	102,339	700	341,421	0

HOURS OF LABOUR

Male Workers					Female Workers				
45	50	54	58	60	45	50	54	58	60
154,937	30,157	21,964	1,894	15,570	71,831	12,452	8,301	719	4,067

Also 19,529 employees, male and female, working approximately 50 hours per week.

Orders issued relating to various requirements of the Act totalled 5,876 as compared with 5,330 in 1937.

PERMITS

Applications for permits numbered 4,570 and were issued as follows:—

	Sections of Act		1937	1938
Double shift	33		167	157
Overtime	32		2,381	2,088
Bakeshop	71		58	46
Fruit Camps	38		20	16
Sale of bread manufactured outside the Province	70		5	
Homework	51	workers	1,120	1,909
		employers	107	166
Industrial Standards schedules				188
Totals			3,858	4,570

COMPLAINTS

One hundred and eighty one complaints were received during the year. Upon investigation 79 were upheld, 69 not upheld, 12 pending investigations and 3 did not come within the jurisdiction of the Branch. Some investigations covered more than one complaint. Susbjects of complaints were as follows:—

	1937	1938
Long hours	61	71
Inspection of boilers	5	4
Working overtime without permit	5	12
Engineers' certificates	18	4
Ventilation	2	5
Fire exits	13	11
Fumes	2	7
Half hour lunch period	—	5
Elevators	5	4
Toilet accommodation	5	14
Child labour	1	4
Dust	2	3
Heat	3	7
Sanitation	3	2
Air tank inspection	—	1
Mechanical exhaust	7	2
Guarding machinery	5	2
Sunday work	—	1
Homework without permit	—	1
Lights	—	1
Miscellaneous	29	20
Totals	232	181

VIOLATIONS

Violations of the Acts in the enforcement of which the inspectors have a responsibility were reported as follows:—

Operating Engineers Act	57
Adolescent School Attendance Act	8
Minimum Wage Act	1,420

EXPLOSIONS

The following explosions causing injuries to employees were reported during the year:—

March 4, 1937	Stub of electrode fell into mix causing molten metal explosion
April 27	Valve blown off boiler
May 22	Tank exploded
May 28	Gas tank exploded
June 15	Combustion chamber gasses exploded
June 18	Steam boiler exploded
June 25	Gasoline storage tank blew up
July 22	A valve chest blew out
July 28	Extractor in laundry exploded
August 6	Puffing machine exploded
August 24	Glass jar in vôrtrap receiver exploded
October 4	Acetylene torch exploded
October 30	Gasoline explosion
December 11	Slight explosion in the cyanide pot
December 15	Residue mixing tank blew up
December 17	Victaulic coupling exploded
January 26, 1938	Test tank exploded
January 27	Drum exploded

ACCIDENTS

Three thousand six hundred and forty six accidents were reported for the year 1938, as compared with 3,193 in 1937, of which 40 were fatal, as compared with 37 fatalities in 1937.

Fatalities were due to:—

Burns and scalds	1
Drowning	2
Electricity	2
Elevators	3
Explosions	9
Falling substances	5
Falls	6
Flying missiles	1
Hooks, chains, cables	2
Jammed between articles	4
Other machinery	1
Rolls	1
Shafting	1
Miscellaneous	2
Total	40

FACTORY

Summary of Accidents

	Cause of Injury	Head and Face				Upper Extremities								Trunk					
		Face	Head	Eyes	Ears	Hand	Fingers	Thumb	Arm	Shoulder	Wrist	Elbow	Other	Ribs	Thigh	Back	Stomach	Chest	Side
	Burns and scalds	8	1	19	1	24	11	1	14		2	2	20		2	1			1
	Cranes and derricks						1												
	Elevators		1						1				2						
	Electricity					3	2						3						
	Explosions												4						
	Falling substances	1	38	2		28	40	8	5	3	3	4	5	3		5	1	5	2
	Falls	6	20	1	1	8	8	3	21	17	15	14	33	38	5	38		6	20
	Flying missiles	30	12	38	1	5	14	2	10	5	7	1	7	4	1	1	3	7	5
	Foreign substances in eyes			188															
	Hand tools	2		1		26	47	19	6		6	2	2	4				1	2
	Hooks, chains, cables	1				1	3	2											1
	Infected wounds	1		4		47	117	28	7		7	5	4						
	Jammed between articles					42	174	30	5	1	1	1	6			1		1	2
	Sprains and strains					6	4	2	9	13	22	2	21	1	1	118	2	6	60
Machinery and Connections	Rolls					9	12	1	2				2						
	Gears, cogs, sprockets						9		3	1									
	Belts, pulleys, shafting					2	6		2		1								
	Saws					5	26	11	1										
	Planer						3												
	Drill	1				1	8	1											
	Shears					1	3												
	Emery wheel						9												
	Press					4	30	3	1			1			1				
	Punch						9	4			1							1	
	Dies					1	3												
	Barker						7		1										
	Calender		1			1	2		1										
	Cutter knives						7		1										
	Conveyers						2												1
	Hammers						1												
	Jointers						1												
	Stitcher						1	1											
	Loom					1													
	Centrifugal machinery						1		2										
	Paper machinery					2	3		1										
	Spinning machinery					1	3		1										
	Grinding wheels			1			4	3											
	Lathes					1	8												
	Machinery connections		2			6	20	1	1		1								
	Wiredrawing, etc			1															
	Trucking						1						1	1				1	
	Other machinery					10	45	4			1	1	1	1		1		1	2
	Miscellaneous causes	1	12	5	1	42	133	28	24	3	2	19	29	11	4	4		5	5
	Industrial diseases					3			1				34					1	
	Drownings																		
	Totals	51	87	260	4	280	778	152	120	43	69	52	174	63	14	169	6	35	101

INSPECTION BRANCH
for the Fiscal Year 1938

Trunk			Lower Extremities								Class of Industry													
Hips	Groin	Abdomen	Legs	Foot	Toes	Knee	Ankle	Multiple	FATAL	Totals	Pulp and Paper Trades	Metal Trades	Rubber & Rubber Goods	Textiles	Food	Lumber	Laundries	Chemicals	Conveyances, etc.	Clay, Glass and Stone	Unclassified Trades	Leather Goods	Woodworking	Wearing Apparel
	1		11	30		2	7	36	1	195	24	89	2	6	11	1		7	7	16	27	1	3	1
			1	2				2		6		6												
			1	4				4	4	17	2	2	1	2	1				1	2	4	1		1
								4	2	14	3	5		1							5			
			1					7	10	22	2	10			1	1		3			5			
3			39	227	150	16	15	16	4	623	99	279	20	16	19	15		8	40	55	59	2	11	
13	4	3	23	16	4	36	28	36	6	423	85	103	18	22	24	10		4	17	54	70	4	6	6
2	1	3	9	1		5	2	5	1	182	26	73	4	7	4	11		1	8	13	24		10	1
										188	31	91	8	3	10	9	1		3	6	20		6	
			8	13	2	2	2	2		147	34	33	2	11	10	6		3	2	2	40		2	2
			1	2		4			2	17	8	3			1	2					3			
			1	9	3	5				238	27	81	4	19	30	5			4	21	21	2	6	18
			7	9	4	5	3	3	4	299	41	116	3	14	7	17		5	12	33	38	1	10	2
5	12	6	7	10	1	24	45	3		380	76	118	11	8	21	10		7	13	45	64	2	3	2
									1	27	8	6	3	5	2	1					2			
				1						14	2	5		1	1					2	3			
			1				1		1	14		4		2	2	1				1	2		1	1
										43	3	14			1	5		1	1	1	11	1	5	
						1				4	1	2				1								
										11		9		1									1	
										4		4												
										9		5							1	1	2			
								1		41	3	29	2		1				2		6	1		
										15	2	11	1								1			
										4		2	1											1
										8	5					1					2			
										5	4		1											
										8	1				4				1	1	1			
				2				1		6	2				3					1				
								1		2		1									1			
										1								1						
										2				1									1	
										1			1											
										3		1		1									1	
								1		7	6										1			
								1		6		1		5										
										8		8									3			
										9		6												
			1	1				1		34	4	12			1		1			3	6	2	2	3
			1					2		4		3									1			
			5	20	15					44	9	9	5	2	7	1			2	2	7			
			2	2	1			6	1	79	13	21	2	4	6	4			4	4	12	1	3	5
3	1		28	34	9	17	9	7	1	437	54	156	11	24	38	18			14	44	61	1	11	5
				1				3		43	1	17	1	1	3			1		10	2	2	5	
									2	2					1						1			
26	19	12	147	384	189	117	112	142	40	3,646	576	1,332	101	156	209	119	2	41	132	317	505	21	87	48

BOILER INSPECTION BRANCH

CHIEF INSPECTOR, DEPARTMENT OF LABOUR—J. R. PRAIN

EXAMINER OF REPORTS AND DESIGNS—J. N. BRIGGS

A survey of the work performed by the Boiler Inspection Branch during the fiscal year 1938 is gratifying. Demands for service created by the upward trend of industrial activity taxed the efforts of the staff to the utmost and resulted in an icrease in the amount of monies transferred to the Treasury Department of $4,345.32, as compared with the previous year.

Welding

Welding has reached a stage today where it occupies a merited place of importance in the fabrication of boilers and pressure vessels. Fundamentals of good welding technique essential in their construction are vigorously followed by many manufacturers, but unfortunately this condition is not universal. Inspectors have found it necessary to condemn welds when the factors required in the production of acceptable welds have been disregarded. Rules for qualification tests for welding operators and for the welding processes employed by the manufacturers are well established. The number of examinations held throughout the year shows a decided increase.

Steam pressures that only twenty years ago would have been regarded by engineers as dangerously high are now accepted as not only practical but desirable in power production. High steam pressures are being carried in power plant piping where fusion welding of joints has been employed. While most welders are able to produce sound and ductile welds of plain carbon steel piping, we are confronted with the problem of finding welders capable of qualifying for welding of alloy steel piping in which chrome and molybdenum are important ingredients.

NATIONAL BOARD OF BOILER INSPECTORS

The Department of Labour was represented at the Eleventh General Meeting of the National Board of Boiler and Pressure Vessel Inspectors held in New York City from May 25 to 29. The subjects discussed and papers read during the sessions were of the utmost importance and interest to manufacturers and others associated with boiler code work. This Board was organized in 1919 for the purpose of securing uniform approval of specific designs of boilers and pressure vessels through the adoption by various states and cities of one code of rules. The membership of the organization is restricted to inspectors or other officials charged with the enforcement of the rules of the American Society of Mechanical Engineers' Boiler Construction Code. The board also serves the purpose of promoting and maintaining an efficient standard of uniform inspections by granting commissions to inspectors having qualified by examination. This matter has already received consideration by responsible Canadian authorities enforcing Interprovincial Boiler Regulations, with a view to adopting similar standards for uniformity of inspections throughout the various provinces.

BOILER CODE COMMITTEE

The latter part of the fiscal year saw the first meeting of the Boiler Code Committee of the Canadian Engineering Standards Association in Toronto. This is a national organization supporting industrial standards, either British or foreign, for the benefit of Canadian industry. Members of the Boiler Code Committee include representatives of Canadian manufacturers, insurance companies and chief inspectors of the various provinces, with the exception of British Columbia and the Maritimes.

With a view to establishing uniform standards acceptable to the various government divisions of the Dominion and to the manufacturers and users of boilers and pressure vessels, the Committee recommended that the Canadian Engineering Standards Association adopt the code of the American Society of Mechanical Engineers for materials and construction of boilers and pressure vessels.

EXPLOSIONS

On May 27, 1937, one man was killed and two others severely burned as a result of an explosion of a gas cylinder in a garage located in St. Isidore de Prescott. This type of vessel, known as an acetylene storage tank, is commonly used when coupled with an oxygen tank for the purpose of welding and cutting of metal parts. The cause of the explosion may be attributed to a hidden defect in the welding securing the bottom head to the cylinder, allowing acetylene gas to escape in sufficient quantities to become ignited from a nearby open flame of an oxygen-acetylene torch in use at the time. The deceased man was standing approximately 40 feet away from the exploding tank, and the extent of the damage to the building indicated that a large volume of gas had accumulated when ignited. The remains of the gas cylinder were later found 220 feet from the buildings. The cylinder is of a type extensively used throughout Canada and the United States for the storage of acetylene gas under pressure of 250 pounds. Vessels coming under this classification are built to specifications required by the Dominion Railway Commission and Interstate Commission of the United States. The Boiler Inspection Branch has no jurisdiction over vessels of this type.

Investigation of an explosion of a Scotch marine type boiler which occurred on July 19 at Red Bridge revealed the cause to be the weakened condition of the flange seam joint of the front end of furnace due to corrosion. Unfortunately the fireman standing in front of the boiler was hurled about 185 feet by the blast and instantly killed. The boiler was moved from its supports about 25 feet, and the buildings and machinery were totally destroyed. Failure of the seam had apparently taken place when the pressure had risen to 45 pounds per square inch. The boiler was bought early in 1934 and the parties responsible had failed to have the required inspection made at that time, in accordance with the Regulations. If this inspection had been made by the Boiler Inspection Branch, the defective seam, which must have been scarcely less defective at the time of purchase, would have been repaired and the boiler thus rendered safe.

Propelled by a force that must have been tremendous, and travelling at a velocity impossible to estimate, an air receiver exploded on October 25, 1937, at the Toronto plant of a motor car company. The steam and sprinkler system piping was damaged and a 12 by 12-inch wooden beam splintered, but fortunately no one was hurt at the time. The vessel, 24 inches in diameter and 6 feet long, was fabricated of shell ⅛ of an inch thick and heads 3-16 of an inch. It was quite evident that the operating pressure of 115 pounds proved excessive and sent the vessel on its upward flight when the bottom head failed. The safe allowable pressure for this vessel should not have exceeded 60 pounds per square inch.

An explosion on November 4 of a welded C O2 tank installed in a Toronto plant seriously injured two workmen. The vessel was comparatively new and fabricated by a local boiler and tank manufacturer to specifications furnished by the customer. The requirements of The Steam Boiler Act for submission of design of vessel for approval and inspection during fabrication were ignored. The tank was connected directly to the second stage of a compressor operating at 425 pounds per square inch, and the safety valve installed on the vessel, when tested after the explosion, did not release until a pressure of 500 pounds had been recorded. Further investigation disclosed the fact that, had the required procedure respecting approval and inspection been observed, the allowable working pressure of 97 pounds would have been the maximum for safety. Other disclosures indicated bad workmanship and disregard of principles essential in the application of welding by the manufacturers.

Investigations failed to disclose the cause of explosions and fire that destroyed the benzol recovery plant of a steel company in Hamilton on December 15, causing $200,000 damage and claiming the lives of three workmen. In spite of care and organization for the prevention of fire and other hazards connected with the process of distilling benzol from light oil, the residue tank of the system exploded and started fire to the benzol recovery building. Other explosions of nearby tanks followed immediately. The residue tank, 6 feet in diameter and 25 feet high, vented to atmosphere through a 6-inch pipe, was used exclusively for receiving distillate residue from the stills. The residue when mixed with tar is then pumped to the coke ovens as fuel. The officials of the company were mystified concerning the cause of the explosion, and claimed that there had been no lapse of the safety methods at the plant. Evidence submitted at the inquiry indicated that no fire would have followed the first explosion if the residue tank had been located some distance from the benzol recovery buiding.

Great damage to property was the result of an explosion of a 72-inch diameter steam dryer on January 24, 1938, at an abrasive plant in Brantford. Fortunately those responsible for the operation of the machine to which the exploded tank was attached were out of the room when the explosion occurred and no one was killed or injured. The vessel, being over 30 years old, was made up of a thin upper shell attached to steel heads on which trunnions were provided for the rotation of the vessel. Under present day formulae a safe working pressure from 6 to 7 pounds would have been permitted. The steam supply to the cylinder was reduced from high pressure to 15 pounds through a reducing valve. Relief valve and pressure gauge were provided on the low pressure side of the reducing valve, but owing to the faulty action of the diaphram in the reducing valve a pressure of 19 pounds would accumulate, and under these conditions the vessel was allowed to operate. Stresses produced as a result of the excess pressure sheared the rivets and tore the shell from the band securing the shell to the heads. Proper inspection by a competent inspector would have prevented what might have been a very disastrous affair.

TABULAR SUMMARY OF WORK

Drawings and Specifications Surveyed, Registered, and Re-Registered.

	Designs
Boilers	84
Pressure vessels	230
Steam piping layouts	41
Accessories	36
Special rulings—	
Boilers	3
Pressure vessels	14
Accessories	6
Boiler revisions	2
Drawings surveyed but not registered	2
Total	418

New Pressure Vessels Inspected:

	Inspections
Boilers—Ontario	211
Alberta	1
Saskatchewan	2
Manitoba	1
Quebec	26
Prince Edward Island	1
England	1
Australia	1
Pressure vessels—	
Ontario	374
Alberta	2
Saskatchewan	1
Quebec	66
New Brunswick	4
Steam piping layouts	9
Total—first inspections	700
second inspections	521
final inspections	629

Used Pressure Vessels Inspected:

	Inspections
Boilers	655
Pressure vessels	271
Annual inspections —	
Boilers	306
Pressure vessels	76
Steam piping layouts	2
Total inspections	1,310
Final inspections only	303

Certificates Issued—

Class "A"—new pressure vessels	511
Class "B"—used pressure vessels	1,092
Class "C"—low pressure heating boilers, accepted by affidavit of shop forman	298
Class "D"—new pressure vessels, accepted by affidavit of shop foreman	794
Class "E"—new boilers under 3 H. P. accepted by affidavit of shop foreman	42
Duplicate	6 5

The total monies transmitted to the Treasurer of Ontario for the fiscal year ending March 31, 1938, amounted to $19,599.87.

BOARD OF EXAMINERS OF OPERATING ENGINEERS

CHAIRMAN—F. B. WALKER

MEMBERS—W. J. SCOTT, S. G. ROSE

The twenty-ninth report of the Operating Engineers' Board covers a period wherein has occurred the greatest volume of business in all phases of activity in the history of this Branch.

Reference to the statistical data attached hereto shows a net revenue of $29,314.-14, an increase of $3,251.61, or approximately 12 per cent, as compared with the previous year. More significant probably is the increase of 29 per cent. in the number of examinations conducted by the Board, there being 2,305 candidates as compared with 1,644 in the previous year.

The most important issue dealt with by the Board during the year was the complete review of the Regulations drawn under this Act. During these deliberations a survey was made of the Regulations with the result that certain minor changes were made, the most important of which was the incorporation of a provision for the certification of air compressor operators in response to a growing demand from the mining industy in Northern Ontario. Major changes were made, however, in the typographical design of this publication with a view to simplification and ready reference. The Board is pleased to report the achievement of a workable and effective regulatory scheme which has drawn commendatory comment from many quarters.

The annual renewal of certificates, which had become a problem by reason of the steadily increasing volume of work involved, received serious consideration this year. As a measure of mitigation, the Board eliminated the issuance of renewal notices to certificate holders, so that more attention may now be given the most important phase of administration, that is, the control of violations of the Act. Under a re-organized system of enforcement inaugurated in September 1937, the Board brought under review 405 cases of infractions of the Act. At the close of the fiscal year 246 had been satisfactorily adjusted, with 159 still in process of adjustment. Solutions were found in each case without resort to litigation.

A noticeable increase will be observed in the number of plant registration certificates issued. This is due to the Board's policy of rotational survey, whereby an up to date record may be available always and also to the recent inclusion of certain low pressure steam plants within the scope of the Act.

The publication of text books compiled by the Board for the assistance of engineers is now in its sixth year. Justification of this measure and the popularity of the books are attested by the fact that 11,363 copies have been distributed with a total sale value amounting to $12,053 since the inception of this service.

Acknowledgement of the assistance rendered by the members of the Composite Inspection Service in the administration of the Operating Engineers Act is a duty we are pleased to perform. Their assistance has proved invaluable during the year.

If readiness of compliance and co-operative response upon the part of persons involved are indicative of success in the administration of this Act, the Board feels justified in reporting a most satisfactory year. With few exceptions, we have encountered a definitely favorable reaction in our innumerable contacts with plant owners, their representatives, engineers' organizations and individual engineers, which prompts us to express our appreciation of their assistance and support in the administration of the Operating Engineers Act.

REPORT RE REVENUE FOR FISCAL YEAR 1938

Fees Collected For Certificates:

By Examination	$ 8,217.00
Re-examination	1,606.00
Renewals	15,610.99
Provisionals	105.00
Duplicates	23.00
Plant registration	324.00

Revenue By

Certificates	$ 25,885.99
Sale of books	2,620.83
Miscellaneous	43.07
Penalty renewal fees	1,773.50
Gross Revenue	$ 30,323.39
Net Revenue	$ 29,314.14

Monies Refunded On:

Examinations		$ 885.50
Renewals of certificates		37.00
Text books		7.50
Penalty renewal fee		45.50
Miscellaneous		24.50
Plant registration		8.00
Duplicate certificate		2.00
Unhonored cheques		2.25
Less refund credit cheques	$3.00	
Gross Refunds		$ 1,009.25

REPORT RE CERTIFICATES FOR FISCAL YEAR 1938

Number of cetificates issued	17,195
Number of certificates refused	816

	Certificates Issued						Refused
Class	By examination	By re-examination	By provisional	By duplicate	By renewals	Total issued	Total refused
Firemen	181	23	—	—	339	543	57
4th class	557	109	5	2	4,781	5,454	292
3rd class	158	75	12	4	4,486	4,735	259
2nd class	18	33	2	2	2,288	2,343	122
1st class	4	8	—	—	278	290	28
Hoisting—steam	102	4	1	6	1,677	1,790	31
Hoisting—gas	80	—	—	—	67	147	8
Traction	109	1	2	6	1,068	1,186	19
Duplex	26	1	—	1	339	367	—
Plant registration						340	
	1,235	254	22	21	15,323	17,195	816

Grand Total Certificates Issued 17,195

REPORT OF EXAMINATIONS HELD FOR FISCAL YEAR 1938

Number of Candidates Examined at Toronto	997
Number of Candidates Examined at Other Centres	1,308
Total Number of Candidates Examined	2,305

Class	At Toronto	At Other Centres	Total
Firemen	74	121	195
4th class	387	598	985
3rd class	228	298	526
2nd class	108	77	185
1st class	21	21	42
Hoisting—gas	42	27	69
Hoisting—steam	69	96	165
Traction	68	70	138
Totals	997	1,308	2,305

Examinations were held at Outside Centres as follows —

	Number of examinations	Number of candidates		Number of examinations	Number of candidates
Brantford	1	18	Owen Sound	2	26
Belleville	1	17	Orillia	2	23
Brockville	2	16	Palmerston	1	7
Chatham	2	12	Pembroke	1	10
Cornwall	2	39	Parry Sound	1	3
Fort William	1	47	Peterborough	1	16
Fort Frances	2	19	Renfrew	1	8
Guelph	2	27	Sault Ste. Marie	2	52
Haileybury	2	21	Sioux Lookout	3	23
Huntsville	1	11	Sarnia	2	24
Hamilton	2	50	Sudbury	3	86
Niagara Falls	2	22	St. Catharines	2	15
Kapuskasing	2	28	Smith's Falls	2	11
Kenora	3	41	Stratford	1	11
Kirkland Lake	3	105	Timmins	3	125
Kingston	1	22	Port Arthur	2	85
Kitchener	2	42	Windsor	2	85
London	1	47	Other Centres	2	19
North Bay	2	26			
Ottawa	2	69			
Total at Outside Centres				69	1,308
Total at Toronto					997
Total during year					2,305

CONCILIATION AND NEGOTIATION

CHIEF CONCILIATION OFFICER—LOUIS FINE

With the appointment of a Chief Conciliation Officer at the beginning of the fiscal year, the Department of Labour extended its conciliation service. This service is open to both parties of an industrial dispute, either before or after a strike has been called, and impartial assistance is given in working out a satisfactory settlement without interference with the rights of either. As far as possible, the Department is in constant touch with industrial situations likely to result in disputes and in instances in which the public interest might be unduly affected, the Department takes the initiative in contacing the interested parties with a view to preventing unnecessary industrial strife. Effective assistance has been rendered in such matters on a number of occasions and satisfactory adjustments and mutual understanding achieved, averting strikes or stoppages.

Through co-operation of the employers and employees with the Department of Labour increased numbers of agreements containing uniform rates of wages and better conditions have been negotiated. The contact afforded by the conciliation work of the Department with industrial situations supplies a valuable link between industry and the legislation available in the Province for the treatment of these questions, as for instance The Industrial Standards Act. As a result of dealing with some of the problems which have been brought to the Department, we have been able to be of assistance to both employers and employees in utilizing the provisions of the Act with the result that, in addition to settling immediate disputes, we have been the means of bringing about stabilized conditions of labour and thus avoiding the probability of future disputes. An instance of this is the case of the logging industry, so important to the welfare of a considerable portion of this Province. During the fiscal year there were no strikes in this industry in the four zones where schedules pursuant to The Industrial Standards Act were in force, so that the time-loss due to strikes in the whole industry was only approximately 2 per cent. of the total time-loss in all industries, as compared with 48 per cent. in 1934, when the time-loss in the logging industry was approximately 26 times that of 1938.

During the fiscal year the conciliation service of the Department of Labour was utilized in connection with the adjustment of many disputes in which there were threats of strikes, and satisfactory settlements were reached to the advantage of both parties and of the public interest. The following are some of the more important of such cases, which indicate the value of this service;—

GLASS INDUSTRY:

The Department of Labour was asked to intervene in connection with a contemplated strike of employees in two glass plants in the same centre. The employees were persuaded to postpone action until their representatives had an opportunty of meeting with a representative of the company and the Conciliation Officer of the Department. At this meeting a memorandum of agreement was drawn up, which provided that, in the event of the employers and employees failing to conclude negotiations regarding wages and hours within a stated time, the same would be decided by arbitration. The three arbitrators were the Chief Conciliation Officer, a representative of the company and the legal adviser of the employees, and their decision was accepted. Approximately 600 workers were employed in these two plants.

Later in the year a dispute arose in one of these plants regarding alleged breach of seniority provision. As settlement could not be effected by the negotiating committee, of which an official of this Department was a member, arbitration was agreed upon and the decision was rendered in favour of the employees.

The employees of five glass factories in another cenre, through a representative of the union, applied for help in bringing about an amicable settlement between members of the union and the employers. The Conciliation Officer was able to hold a meeting of employees and representatives of the employers of these firms, at which both parties co-operated in arriving at a settlement of the difficulties and a better understanding of the problems of both sides.

IRON AND STEEL INDUSTRY::

Representatives of the union employees of one firm advised this Department that they expected to call a strike, having failed to reach an agreement with the company. The Department declined to take action without assurance that no strike would be called before it was in possession of full particulars relating to the situation. After conferring with officials of the firm, a basis of agreement was drawn up and presented next day to union representatives. Within a fortnight matters in dispute had been adjusted and no strike was called. Later conciliation service was again requested by the union in connection with alleged discrimination, and an adjustment of this matter was brought about to the satisfaction of both parties. This firm employs 920 workers.

Upon the request of the employees of another firm, the Department of Labour intervened in connection with a dispute because of alleged discrimination for union activity. Adjustments were arranged and proper working relations established without loss of time by the employees.

In one plant five grievance cases regarding seniority were submitted to arbitration and the decision rendered was satisfacory to all concerned.

RUBBER INDUSTRY:

The manager of one firm called on the Department to discuss the labour problems of the plant, as the employees were to take a strike ballot later in the day. It was agreed, however, that the employees would take advantage of the service of the Conciliation Officer before taking strike action. After separate conferences with representatives of the union and with the factory manager, assistance was given in arriving at an agreement acceptable to both sides, which made provision for grievance procedure.

TEXTILE INDUSTRY:

In a carpet factory the Conciliation Officer was successful in bringing about an agreement providing for a five per cent. increase in rates for employees in one department, who were threatening to strike for a ten per cent. increase. There was no loss of time, the employees continuing at work while negotiations were being carried on.

In connection with a dispute in a hat factory concerning wage increases for certain employees and lay-offs, the employees returned to work and matters in dispute were settled by arbitration. The decision rendered was not in favour of increases and the question of lay-offs was to be decided later when the employees had had an opportunity of submitting suggestions to the management.

The assistance of the Department was requested in connection with dissatisfaction among the employees of a knitting factory. Negotiations were undertaken but a satisfactory conclusion had not been reached by the end of the fiscal year.

FURNITURE AND WOOD PRODUCTS:

Representatives of the employees of a furniture factory applied to have an official of the Department of Labour mediate between the manager and the shop committee with a view to bringing about a better understanding of points under dispute contained in the agreement between the management and the employees.

At the request of the general representative of the union, an official of this Department acted as conciliator in a dispute between the union and a match manufacturing company in an effort to forestall a strike. The employers of the two plants affected agreed to meet their employees with the result that an agreement acceptable to both parties was drawn up and signed. The agreement was a compromise, the terms of which provided for higher wages, shorter hours and no discrimination. The two plants employ 240 workers.

Conciliation service was rendered in connection with a dispute between four timber companies and the local union, when wage increases for all employees were submitted. After two meetings with representatives of both parties, and a meeting with each party separately, the Conciliation Officer was able to draw up an agreement which met with the approval of both sides. There was no loss of time for the 420 employees affected by this agreement.

DAIRY INDUSTRY:

A Conciliation Officer negotiated between representatives of employers and employees of this industry in a city in an effort to forestall a strike of all dairy employees. An amicable settlement of points under dispute was finally arrived at and a general strike of milk drivers averted.

The employees of one dairy applied for assitance in the settlement of grievances regarding several details of employment. After a conference the firm agreed to accept the suggestions of the employees and no strike took place.

RESTAURANTS:

Representatives of employers and employees in the restaurant business in a city met with an official of this Department to discuss remedies of various grievances, which threatened to lead to strike. The employees' representatives submitted proposals which were later considered at a meeting of employers' representatives, who submitted counter proposals.

TRANSPORT INDUSTRY:

The Department was asked by the representatives of the union to intercede in connection with a threatened strike of employees of a transport company. The employees claimed that general unfair conditions and wages were the causes of dissatisfaction affecting from 300 to 350 workers. Negotiations resulted in an agreement which prevented a stoppage of work.

In addition to negotiations which prevented strikes, the Chief Conciliation Officer or other officials of the Department of Labour conducted negotiations which resulted in the settlement of strikes affecting approximately 75 per cent. of the total number of workers involved in strikes in the Province. A table of all strikes reported in Ontario during the fiscal year 1938 will be found in the appendix of this Report.

INDUSTRY AND LABOUR BOARD

CHAIRMAN—E. J. YOUNG

MEMBERS: MISS M. F. MANGAN; J. C. ADAMS

This report for the fiscal year ending March 31, 1938, is the first report of the Industry and Labour Board.

On March 25, 1937, the Legislative Assembly of the Province of Ontario assented to an Act to amend The Department of Labour Act, thereby empowering the establishment of the Industry and Labour Board, and on May 25 the Board was appointed. It consisted of five members, three of whom were to be officers of the Department of Labour. One of the members represented employers and one represented employees.

On November 22, 1937, Mr. Bancroft, the employees' representative, died and a short time later Mr. Whitehead, the employers' representative, resigned from the Board. No appointments were made to fill these vacancies and at the 1938 session of the Legislature The Department of Labour Act was amended to reduce the personnel of the Board to "not more than three members", all of whom were to be officers of the Department of Labour.

The Board is charged with the administration of

The Industrial Standards Act
The Apprenticeship Act
The Minimum Wage Act

and any other act which may be assigned to it by the Lieutenant-Governor in Council.

INDUSTRIAL STANDARDS BRANCH

A. W. CRAWFORD—CHIEF ENFORCEMENT OFFICER

The Industrial Standards Act provides for the meeting in conference of employers and employees in any designated industry within a defined zone and their agreeing on a schedule of wages, hours and days of labour. If such a schedule is agreed to by a proper and sufficient representation of those engaged in the industry, The Minister may approve the same and upon his recommendation an Order-in-Council may be passed making it effective in law and binding on all persons engaged in the industry within the zone.

At the beginning of the fiscal year there were 39 schedules in effect. Some of these were declared invalid by the courts and, as a result, doubt was cast on the enforceability of a number of others. Certain amendments were made in the Act in 1937 and it was felt that schedules established under the amended Act would have a better chance of being upheld in court than those previously in existence. The Board, therefore, decided not to enforce the doubtful schedules, but advised the various interested parties to apply for new schedules under the amended Act.

Fifty-four official conferences were held during the year and 49 schedules agreed to at conferences were approved by the Minister.

ARREARS OF WAGES

The Industry and Labour Board co-operates with the advisory committees which are set up in each industry in each zone for the purpose of the enforcement of these schedules. These advisory committees are composed of five persons representing employers and employees in the industry.

Under these schedules, the Board collected by negotiation a total of $3,069.50 arrears of wages from 43 employers on behalf of 242 employees, who were reimbursed the amount of their respective arrears. In addition to this amount, the sum of $1,297.53 arrears of wages was paid direct to employees by their employers after intervention on their behalf by the Board. A sum of $52.80 arrears of wages collected for one employee was ordered forfeited to the Treasury because of evidence that the employee was equally guilty with the employer.

PUBLIC INQUIRIES

There was one public inquiry held during the year. This was held in Hamilton on April 13, 1937, in connection with the painting schedule of the Hamilton zone and there were seven witnesses.

ASSESSMENTS OF INDUSTRIES

The Board designated the cloak and suit industry as interprovincially competitive and approved provisions in the schedule with respect to the collection of assessment from employers and employees. The purpose of this assessment is to provide revenue for the enforcement of the schedule.

SCHEDULES IN EFFECT AT END OF FISCAL YEAR 1938

Trades and Industries	Number of Schedules	Zones
Barbering	35	Barrie; Belleville; Brantford; Bracebridge, Gravenhurst and Huntsville; Chatham; Cornwall; Collingwood; Essex County; Fort Frances; Galt, Hespeler and Preston; Guelph; Hamilton; Kitchener-Waterloo; Kingston; Lindsay; London; Niagara Falls; North Bay; Orillia; Oshawa; Ottawa; Owen Sound; Pembroke; Peterborourgh; Port Arthur and Fort William; St. Catharines, Port Dalhousie, Merriton and Thorold; St. Thomas; Stratford; Sault Ste. Marie; Sarnia; Trenton; Toronto; Welland; Woodstock; Windsor.
Carpentry	7	Pembroke; Cornwall; Ottawa; Timmins; Sault Ste. Marie; Windsor; Kingston.
Bricklaying	1	Windsor.
Plastering	2	London; Toronto
Electricians	1	Windsor.
Logging	4	Massey; Rainy River; Timmins; Port Arthur Forestry Division.
Ladies' Cloak and Suit	1	Province of Ontario.
Men's and Boys' Clothing	1	Province of Ontario.
Brewing	1	Province of Ontario.
Hard Furniture	1	Province of Ontario.
Soft Furniture	1	Toronto.
Baking	1	Ottawa.
Total	56	

PROSECUTIONS DURING FISCAL YEAR 1938

	Number	Zone	Reason	Action taken	Fines		Result
Barbering							
1937							
August	13	Toronto	Price	1 convicted 12 withdrawn	$25.00		Paid
	15		Open on holiday	15 withdrawn			
September	7	Toronto	Price	6 convicted 1 withdrawn	$50.00	(2)	Paid
October	4	Toronto	Price	3 convicted 1 dismissed	$55.00	(3)	Paid
November	6	Toronto	Price	1 convicted 5 dismissed	$25.00		Not paid
	1		Open on holiday	1 convicted	$25.00		Paid
	1	Guelph	Open after hours	1 convicted	$25.00		Paid
	1	Sault Ste. Marie	Price	1 convicted	$25.00		Paid
December	2	Niagara Falls	Price	1 withdrawn 1 dismissed			
	2		Open after hours	1 convicted 1 withdrawn	$25.00		Paid
1938							
January	2	Toronto	Prices	2 withdrawn			
February	2	Toronto	Prices	1 convicted 1 withdrawn	$10.00		Paid
	2	Welland	Prices	2 convicted	$10.00	(2)	Paid
March	13	Toronto	Prices	11 convicted 1 withdrawn 1 dismissed	110.00	(11)	Paid
	1	Chatham	Price	1 convicted	$5.00		Paid
	1	Hamilton	Open after hours	1 convicted	$5.00		Paid
Carpentry							
February	2	Windsor	Work on Saturday	2 convicted	$10.00	(2)	Paid

APPRENTICESHIP BRANCH

FRED J. HAWES—DIRECTOR

The fiscal year has been one of increasing activity for the Apprenticeship Branch. The work commenced during the previous year in connection with the motor vehicle repair trade has continued to expand as the regulations applying to the trade have been put into operation. This trade offers a very promising field for apprenticeship. At present there are 447 registered apprentices in this trade and the number is increasing steadily.

The hairdressing and barbering trades have also received considerable attention from this Branch during the year. Trade regulations were approved in January 1937, and immediately the necessary steps were taken to put them into effect. It has required consistent effort to establish a system in the hairdressing trade whereby the proper instruction for those entering the trade will be provided and their exploitation prevented. A great deal has been accomplished in this direction already but it will be some time before this trade will be properly organized and placed on a satisfactory basis.

The barbering trade, in so far as apprentices are concerned, presents difficulties which we are endeavouring to overcome. The teaching of young men in the barber shops has practically disappeared. The trade has been accepting students of the barber schools, with the result that conditions were not satisfactory and were difficult to control. In 1937 an amendment to the Apprenticeship Act authorized the Board to license all schools professing to teach designated trades, and regulations were approved by Order-in-Council providing for the licensing of all schools teaching barbering and hairdressing in Ontario, so that all such schools are now under the supervision of the Apprenticeship Branch.

There was an increase in the number of apprentices indentured in construction trades, although numbers were not as great as we had hoped for in the early months of the year when the building trades gave evidence of increased activity. Court action was take against a building trade contractor who entered into a contract of apprenticeship not in accordance with the Act. He was fined $10 and costs or thitry days imprisonment.

The following tables give a complete summary of statistical information regarding the work of the Branch for the fiscal year 1938.

TABLE No. 1

REGISTRATION OF APPRENTICES BY TRADES FOR THE FISCAL YEAR ENDING MARCH 31, 1938.

Trade	Registrations		Cancellations		Completions		Active
	During Year	Total	During Year	Total	During Year	Total	
Bricklaying	8	212	1	31	8	165	16
Masonry	1	14	1	5	—	7	2
Carpentry	19	238	1	32	8	168	38
Painting and Decorating	14	146	4	16	5	76	54
Plastering	4	126	—	19	2	99	8
Plumbing	24	614	10	147	29	360	107
Steamfitting	6	174	7	56	5	97	21
Sheet Metal Work	11	196	2	45	12	126	25
Electrical Work	34	331	4	72	9	183	76
Motor Vehicle Repairing (a)	289	394	14	15	12	12	367
(b)	23	40	1	1	—	—	39
(c)	27	44	—	—	3	3	41
Hairdressing	197	244	18	19	4	4	221
Barbering	8	8	—	—	—	—	8
Total, 1938	665	2,781	63	458	97	1,300	1,023
Total, 1937	310	2,116	58	385	64	1,203	518

TABLE No. 2

DISTRIBUTION OF APPRENTICES BY TRADES FOR FISCAL YEAR ENDING MARCH 31, 1938

Trade	First Year	Second Year	Third Year	Fourth Year	Fifth Year	Total
Bricklaying	6	6	2	2	—	16
Masonry	—	1	—	1	—	2
Carpentry	11	11	11	5	—	38
Painting and Decorating	7	18	13	16	—	54
Plastering	4	2	1	1	—	8
Plumbing	13	10	25	22	37	107
Steamfitting	4	2	6	6	3	21
Sheet Metal Work	5	9	8	3	—	25
Electrical Work	13	20	20	23	—	76
Motor Vehicle Repairing	41	107	135	106	58	447
Hairdressing	45	120	56	—	—	221
Barbering	3	4	1	—	—	8
Total	152	310	278	185	98	1,023

TABLE No. 3

REPORT OF EXAMINATIONS FOR THE FISCAL YEAR ENDING MARCH 31, 1938.

Number of candidates examined:	At Toronto	At Other Centres	Totals
Motor Vehicle Repair	184	489	673
Hairdressing	99		99
Barbering	14		14
Grand Totals	297	489	786

Examinations were held in Toronto and at the various centres in accordance with arrangements made through local apprenticeship committees as follows:

Motor Vehicle Repair	Centres	Number of Examinations	Number of Candidates
	Barrie	1	22
	Belleville	1	10
	Brantford	2	22
	Chatham	2	21
	Cobourg	1	5
	Guelph	2	26
	Hamilton	4	27
	Kingston	1	15
	Kitchener	2	27
	London	6	67
	Oshawa	2	9
	Owen Sound	1	29
	Peterborough	3	30
	St Thomas	3	47
	Sarnia	1	19
	Seaforth	1	15
	Stratford	2	12
	Toronto	37	184
	Welland	2	34
	Windsor	3	52
Totals		77	673
Hairdressing	Toronto	6	99
Barbering	Toronto	2	14
Grand Totals		85	786

TABLE No. 4

REPORT OF CERTIFICATES ISSUED FOR THE FISCAL YEAR ENDING MARCH 31, 1938.

	Motor Vehicle Repair	Barbering	Hairdressing	Totals
First certificate	1,237	3,070	2,723	7,030
By examination	531	3	10	544
By provisional			5	5
By duplicate	9	2	1	12
By renewal	5,805	808	682	7,295
By miscellaneous	51	3	2	56
Grand Totals	7,633	3,886	3,423	14,942

TABLE No. 5

REPORT OF SCHOOL LICENSES FOR THE FISCAL YEAR ENDING MARCH 31, 1938.

	Issued	Pending
Barbering Trade	6	1
Hairdressing Trade	17	2
Total	23	3

TABLE No. 6

REPORT OF REVENUE FOR THE FISCAL YEAR ENDING MARCH 31, 1938.

	Motor Vehicle Repair	Barbering	Hairdressing	Totals
Examinations and re-examinations	$2,202.00	$ 29.00	$ 186.00	$ 2,417.00
First Certificate	1,214.00	3,140.00	2,902.00	7,256.00
Renewals	5,805.00	808.00	682.00	7,295.00
School licenses		35.00	95.00	130.00
Provisional			5.00	5.00
Duplicate	9.00	2.00	1.00	12.00
Totals	$9,230.00	$4,014.00	$3,871.00	$17,115.00
Miscellaneous				17.83
Grand Total				$17,132.83

MINIMUM WAGE BRANCH

A. W. CRAWFORD—CHIEF ENFORCEMENT OFFICER

The new Minimum Wage Act became effective March 25, 1937. It provides for the establishing of minimum rates of wages for all employees and minumum hourly rates of wages for overtime work, provided that such hourly rates shall not be less than one-fortieth of the weekly minimum wage. The Act further provides that the maximum number of hours of labour with respect to which a minimum weekly wage is established shall not exceed,—

(a) 48 hours in a municipality having a population of more than 50,000;

(b) 50 hours in a municipality having a population of from 10,000 to 50,000;

(c) 54 hours in any other municipality, or in any locality which is not a municipality.

A minimum wage order covering the textile industry was issued and became effective on March 1, 1938. It establishes the minimum wage for men at $16.00 per week and for women at $12.50, with lower rates for juveniles and beginners.

PERMITS

Permits may be issued by the Board authorizing wages lower than the specified minimum rates upon application signed by both employer and employee where, because of age or disability, the worker is unable to compete with normal persons. These permits are issued for one year or less but renewals are granted without investigation in the case of workers over sixty years of age or where disability is permanent and handicaps the employee in the work performed.

Homework permits are issued by the Factory Inspection Branch for both employers and homeworkers, but the rates to be paid for each type of work performed outside the factory must first be approved by the Board. In every case where the same work is done in the factory, the factory rate is set for the homework. Where the homework is of a kind not done in factories, the policy of the Board is to raise the rates gradually until they reach the level of rates that would be paid if the work were performed in factories.

PERMITS FOR FISCAL YEAR 1938.

	For Handicapped Workers		For Homeworkers
	No. of Employers	No. of Employees	No. of Employers
Permits in force at beginning of year	75	135	107
Permits issued during year	8	18	77
Permits expired or cancelled during year	21	47	36
Permits in force at end of year	62	106	148

COMPLAINTS

Complaints received by the Board, either directly from employees concerned or from interested parties, numbered 707. All complaints where names are given are investigated without delay and a report made to the complainant, if action is not taken against the employer.

COMPLAINTS RECEIVED DURING THE FISCAL YEAR 1938.

1937	Numbers
April	98
May	61
June	67
July	57
August	56
September	59
October	58
November	56
December	55
1938	
January	50
February	43
March	47
Total	707

ARREARS OF WAGES COLLECTED DURING FISCAL YEAR 1938.

Month 1937	No. of Employees	No. of Firms	Amount
April	69	43	$ 2,125.69
May	61	35	2,336.49
June	62	40	2,013.20
July	37	29	1,346.25
August	40	33	1,686.26
September	36	31	1,163.20
October	61	36	2,768.86
November	60	45	1,194.77
December	53	42	1,479.11
1938			
January	50	36	1,893.25
February	58	38	1,328.71
March	59	40	1,844.39
Totals	646	448	$21,180.18

ADJUSTMENTS EFFECTED DURING FISCAL YEAR 1938.

Month	No. of Employees	No. of Firms
1937		
April	239	128
May	133	84
June	226	125
July	164	81
August	78	52
September	148	70
October	182	80
November	321	193
December	235	115
1938		
January	160	78
February	156	102
March	141	114
Totals	2,183	1,222

Wage sheets are collected at least once a year from approximately 15,000 employers in the Province who are subject to minimum wage orders, and each wage return is analysed to make sure that the provisions of the orders are complied with. This constant checking by the Board is essential to adequate enforcement of each order.

PROSECUTIONS DURING FISCAL YEAR 1938

Month	Number	Action Taken	Arrears Awarded	Fines	Result
1937			$	$	
April	7	4 convictions	421.64	85.00	Paid (4)
		3 withdrawn			
May	9	4 withdrawn	641.50		
		4 convictions		60.00	Paid (3)
		1 no judgment			
June	3	3 withdrawn	307.10		
July	4	4 dismissed			
August	4	4 withdrawn	300.00		
October	4	3 withdrawn	67.00		
		1 conviction		25.00	Paid (1)
November	3	2 withdrawn	97.75		
		1 conviction		25.00	Not Paid
December	6	5 withdrawn	401.67		
		1 adjourned			
1938					
January	7	6 withdrawn	475.00		
		1 conviction		100.00	Paid (1)
February	5	2 convictions		40.00	Paid (2)
		2 dismissed	44.70		
		1 withdrawn			
March	10	7 convictions	503.61	100.00	2 paid 2 not paid Employer served jail terms.
		2 dismissed			
		1 withdrawn			

The policy of the Board has been to demand immediate adjustments on first violations, to collect the full amount of arreas if adjustments are not made immediately and the law complied with in all respects after the first warning, and to prosecute where it is evident that violations are deliberate or warnings and adjustments have not had the desired effect. Occasionally first offenders are prosecuted but only where there is ample evidence that the employer is aware of the law or where he refuses to make adjustments ordered by the Board.

APPENDICES TO REPORT OF MINIMUM WAGE BOARD

APPENDIX I

The following tables indicate the number of firms reporting to the Board, the number of female employees affected by each order of the Board, and the rates of pay for female employees throughout the Province:

Order No. 6

RETAIL STORES—RETURNS FOR OCTOBER, 1937

	Toronto 1936	Toronto 1937	Other cities over 50,000 1936	Other cities over 50,000 1937	5,000 to 50,000 1936	5,000 to 50,000 1937	Under 5,000 1936	Under 5,000 1937
Number of stores reporting sales help	756	869	669	693	1143	1149	668	760
Total number of female employees	2664	3211	4099	4176	5069	5692	1375	1707
Over 18 years	2568	3113	3993	4086	4848	5458	1325	1581
Under 18 years	96	98	106	90	221	234	50	126
Average hours worked per week (normally)	48.5	48.3	48.5	48.3	50.6	49.7	50.1	51.5
Weekly rate of wages:								
Under $7.00	—	2	5	1	23	12	84	76
7- 8	4	3	5	6	45	40	99	109
8- 9	15	20	24	12	151	94	197	217
9-10	13	17	39	37	432	265	381	490
10-11	112	91	240	177	720	687	315	385
11-12	111	98	99	133	1665	2289	77	102
12-13	1054	1412	2170	2119	746	878	106	140
13-15	622	761	820	883	656	729	62	89
15-18	481	522	422	591	443	520	35	72
18-up	252	285	275	307	188	178	19	27
	2664	3211	4099	4176	5069	5692	1375	1707
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Sales and Office	869	3211 S 675 O	693	4176 S 613 O	1149	5692 S 594 O	760	1701 S 85 0
Office only	83	270	123	266	223	290	88	174
No female help	47	—	54	—	113	—	148	—
Not operating	29	—	42	—	58	—	33	—
Transferred to other trades	7	—	8	—	19	—	8	—
Wage sheets collected	1035		920		1562			1966
Total number of employees		4156		5055		6576	1037	

Order No. 11

TELEPHONE EXCHANGES—RETURNS FOR DECEMBER, 1937

	Toronto		Other places over 50,000		10,000-50,000		4,000-10,000		Under 4,000	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	7	15	7	9	25	25	33	34	117	239
Total number female employees	420	538	907	796	702	872	293	321	546	900
Over 18 years	420	538	894	779	699	833	292	321	544	897
Under 18 years	—	—	13	17	3	39	1	—	2	3
Average hours worked per week (normally)	48	48	43	48	38	44	38	42	48	48
Hourly rate of wages:										
Under 12c	—	—	—	—	—	—	—	—	5	22
12c-16c	—	—	—	—	—	—	—	—	72	221
16c-18c	—	—	—	—	—	—	6	5	45	92
18c-20c	—	—	—	—	17	49	13	17	61	129
20c-22c	—	—	38	35	33	121	28	30	53	107
22c-24c	—	20	3	15	24	94	7	30	56	51
24c-26c	1	1	40	38	71	68	36	20	120	48
26c-28c	2	21	61	23	47	54	24	13	30	123
28c-36c	28	73	621	63	454	317	156	173	72	63
36c and up	389	423	144	622	56	169	23	33	32	44
	420	538	907	796	702	872	293	321	546	900
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:										
Employees on telephone exchanges and office help	15	538 T	9	796 T	25	872 T	34	321 T	239	900 T
	—	617 O		186 O		115 O		59 O		77 O
Office help only	—	—	—	—	—	—	1	0	—	—
Not covered etc.	—	—	—	—	—	—	—	—	520	—
Wage sheets collected	15		9		25		35		759	
Total number of employees		1155		982		987		381		977

Orders No. 13, 14, 15 and 16
TEXTILE TRADES—RETURNS FOR AUGUST, 1937

	Toronto		Other cities over 50,000		5,000--50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	70	64	26	22	76	67	63	51
Total number of female employees	2649	2257	3566	3320	6420	6271	2530	2241
Over 18 years	2489	2040	3349	2984	5573	5210	2311	2042
Under 18 years	160	217	217	336	847	1061	219	199
Average hours worked per week (normally)	44	46	49	49	50	49	52	**52**
Hourly rate of wages								
Under 12c	1	2	—	1	—	2	17	22
12c-16c	—	3	3	7	152	139	87	81
16c-18c	48	30	72	66	203	127	104	86
18c-20c	60	38	49	49	332	303	249	168
20c-22c	78	58	139	121	553	480	535	322
22c-24c	88	74	108	113	1173	1031	386	273
24c-26c	79	78	539	401	910	814	308	343
26c-28c	450	374	644	431	814	883	217	271
28c-30c	1418	1202	1758	1642	1967	2040	509	545
36c and up	427	398	254	489	316	452	118	130
	2649	2257	3566	3320	6420	6271	2530	2241
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting, 1937 only:								
Factory help and Office help	64	2257 F	22	3320 F	67	6271 F	51	2241 F
	—	47 O	—	—	—	37 O	—	21 O
Office help only	19	51	1	1	—	—	—	—
No female help	4	—	1	—	1	—	—	—
Not operating	2	—	—	—	1	—	2	—
Transferred to other trades	—	—	—	—	—	—	—	—
Wage sheets collected	89		24		69		53	
Total number female employees		2355		3321		6308		2262

Order No. 17

NEEDLE TRADES—RETURNS FOR APRIL, 1937

	Toronto		Other cities over 50,000		5,000--50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	623	630	98	111	87	97	19	18
Total number of female employees	7202	7359	782	878	2620	2667	212	198
Over 18 years	6957	7052	775	856	2372	2403	192	143
Under 18 years	245	307	7	22	248	264	20	55
Average hours worked per week (normally)	43.2	43.6	47.04	47.8	48	48.4	49.7	51.6
Hourly rate of wages:								
Under 12 cts.	1	4	3	3	12	5	3	3
12-16	15	18	5	—	114	81	29	8
16-18	89	108	8	3	112	84	15	4
18-20	99	98	26	17	173	151	18	19
20-22	163	158	38	46	228	206	38	39
22-24	168	167	34	44	462	365	30	38
24-26	208	188	195	215	330	359	30	23
26-28	571	576	98	101	261	266	15	16
28-36	3765	3428	217	214	667	674	24	32
36-up	2123	2614	158	235	261	476	10	16
	7202	7359	782	878	2620	2667	212	198
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937:								
Factory and Office	630	7359 F 665 O	111	878 F 78 O	96	2667 F 385 O	18	198 F 35 O
Office only	32	42	4	4	—	—	2	20
No female help	131	—	76	—	5	—	1	—
Not operating	78	—	7	—	3	—	2	—
Transferred to other trades	16	—	1	—	2	—	—	—
Wage sheets collected	887		199		106		23	
Total number employees		8066		960		3052		253

Orders Nos. 21, 22, 23 and 24

DRUG AND CHEMICAL FACTORIES—RETURNS FOR OCTOBER, 1937

	Toronto		Other cities over 50,000		5,000--50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	96	144	35	58	22	22	10	13
Total number of female employees	896	1111	345	321	173	217	183	169
Over 18 years	855	1033	344	315	168	215	178	168
Under 18 years	41	78	1	6	5	2	5	1
Average hours worked per week (normally)	41	44	41	44	45	44	43	46
Hourly rate of wages:								
Under 12c	—	—	1	1	—	—	—	—
12c-16c	—	—	1	2	4	—	—	—
16c-18c	41	14	—	2	—	—	12	12
18c-20c	16	34	1	—	—	2	11	4
20c-22c	33	38	19	20	3	10	45	14
22c-24c	65	79	25	27	39	25	73	61
24c-26c	37	93	32	35	35	36	16	49
26c-28c	128	142	121	85	13	16	10	12
28c-36c	499	547	85	80	67	42	10	14
36c and up	77	164	60	69	12	86	6	3
	896	1111	345	321	173	217	183	169
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	144	1111 F 574 O	58	321 F 165 O	22	217 F 53 O	13	169 F 51 O
Office help only	135	279	31	65	15	40	15	19
No female help	184	—	86	—	20	—	17	—
Out of business etc.	28	—	8	—	4	—	6	—
Transferred to other trades	5	—	4	—	6	—	—	—
Wage sheets collected	496		187		67		51	
Total number employees		1964		551		310		239

Orders Nos. 25 and 26

OFFICES—RETURNS FOR DECEMBER, 1937

	Toronto		Other cities over 50,000		5,000--50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting office employees	1458	1644	403	887	957	1238	502	416
Total number of female office employees	14826	17621	5024	6341	5002	5919	1853	1487
Over 18 years	14679	17460	5014	6272	4987	5850	1845	1475
Under 18 years	147	161	10	69	15	69	8	12
Average hours worked per week (normally)	46.7	40	42	40	45.9	41	44.6	41
Weekly rate of wages:								
Under $7.00	11	6	7	6	21	24	17	23
7- 8	8	8	16	3	33	18	16	17
8- 9	64	56	24	17	69	65	25	50
9-10	55	41	43	31	119	122	50	92
10-11	264	206	118	118	300	339	123	142
11-12	210	282	118	121	610	594	109	89
12-13	1523	1474	732	792	637	715	350	182
13-15	2296	2706	737	950	698	919	334	174
15-18	3823	4631	1314	1569	1154	1442	440	329
18 and up	6572	8211	1915	2734	1361	1681	389	398
	14,826	17,621	5,024	6,341	5,002	5,919	1,853	1,487
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Offices only, Prof., Insur., etc.	762	6094	377	2299	557	1532	111	158
No female employees	167	—	60	—	80	—	48	—
Not operating	35	—	6	—	21	—	5	—
Transferred to other trades	5	—	6	—	3	—	1	—
Office wage sheets collected	969		449		661		165	
Office help from factory wage sheets		11527		4042		4387		1329
Total number of office employees		17,621		6,341		5,919		1,487

NOTE: The "Number of firms reporting" as indicated in the above table represents only employers who reported office workers only, and who had no female employees affected by any other order of the Board

The "Total Number of Employees" however includes all office workers reported by all classes of employers listed under the different orders

Order No. 27

HOTELS, RESTAURANTS AND REFRESHMENT ROOMS—RETURNS FOR SEPTEMBER, 1937

	Toronto		Other cities over 50,000		10,000 to 50,000		4,000 to 10,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	557	779	283	417	486	567	175	254
Total number of female employees	4159	5302	1338	1650	1991	2190	592	842
Average hours worked per week (normally)	46.	50.6	45.	49.4	49.2	53.5	51.	52.
Hourly rate of wages:								
Under 12c	—	2	—	—	4	2	2	6
12c-16c	3	2	9	12	17	14	5	22
16c-18c	9	5	3	7	15	24	23	34
18c-20c	4	4	10	9	52	48	59	46
20c-22c	12	16	21	18	171	148	220	284
22c-24c	33	69	39	33	735	849	106	141
24c-26c	234	181	586	706	425	425	69	125
26c-28c	1512	2257	302	309	256	270	43	58
28c-36c	1872	2260	283	454	258	324	54	90
36c and up	480	506	85	102	58	86	11	36
	4159	5302	1338	1650	1991	2190	592	842
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Restaurant, hotel and office help	799	5302-R&H 352-O	417	1650-R&H 87-0	567	2190-R&H 70-O	254	842-R&H 11-O
Office help only	7	18	3	3	2	2	—	—
No female help	270		153		95		26	
Out of business etc.	151		39		54		12	
Transferred to other trades	2		1		—		—	
Wage sheets collected	1229		613		718		292	
Total number employees		5672		1740		2262		853

Order No. 28

LEATHER TRADE—RETURNS FOR AUGUST, 1937

	Toronto		Other cities over 50,000		5,000-50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	56	61	6	6	38	36	15	17
Total number of female employees	656	657	216	213	981	1055	484	508
Over 18 years	598	607	207	199	866	931	414	428
Under 18 years	58	50	9	14	115	124	70	80
Average hours worked per week (normally)	45	50	48	47	49	49½	51	50
Hourly rate of wages:								
Under 12c	—	—	—	—	—	—	—	6
12c-16c	—	—	—	—	51	52	50	40
16c-18c	21	18	3	3	23	23	18	19
18c-20c	19	21	5	4	48	47	19	25
20c-22c	29	19	15	6	58	53	114	87
22c-24c	22	18	10	8	140	110	57	40
24c-26c	15	19	47	37	121	113	59	47
26c-28c	75	87	23	20	97	114	39	42
28c-36c	410	383	58	53	307	338	103	149
36c and up	65	92	55	82	136	205	25	53
	656	657	216	213	981	1055	484	508
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	61	657 F 74 O	6	213 F 35 O	36	1055 F 64 O	17	508 F 43 O
Office help only	11	11	3	8	8	29	2	4
No female employees Not operating, etc.	10	—	1	—	5	—	1	—
Wage sheets collected	82		10		49		20	
Total number employees		742		256		1148		555

Order No. 29

DEPARTMENT STORES—RETURNS FOR OCTOBER, 1937

	1936	1937
Number of stores reporting	2	2
Total number of female sales help	4439	4064
Over 18 years	4263	3881
Under 18 years	176	183
Average hours worked per week (normally)	48	48
Weekly rate of wages:		
Under $7.00	—	—
7- 8	—	—
8- 9	62	60
9-10	17	39
10-11	77	70
11-12	58	31
12-13	1005	698
13-15	1934	1701
15-18	974	1127
18-up	312	338
Total	4439	4064

For 1937 only:

Sales force	4064
Office force	2009
Total number of female employees	6073

Order No. 30

ELECTRIC TRADE—RETURNS FOR NOVEMBER, 1937

	Toronto		Other cities over 50,000		5,000-50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	37	38	8	9	18	20	6	5
Total number of female employees	1298	1294	885	776	543	671	254	276
Over 18 years	1201	1210	861	763	495	619	223	249
Under 18 years	97	84	25	23	48	52	31	27
Average hours worked per week (normally)	45	45	48	47	48	45	47	48
Hourly rate of wages:								
Under 12c	—	—	—	—	—	—	—	—
12c-16c	3	—	—	—	9	—	4	7
16c-18c	34	14	—	—	20	3	8	2
18c-20c	8	7	—	—	29	9	12	8
20c-22c	7	10	24	3	25	50	42	20
22c-24c	22	20	26	6	91	69	47	24
24c-26c	34	70	141	23	46	55	35	45
26c-28c	101	91	141	102	53	85	44	60
28c-36c	835	700	463	226	216	344	55	96
36c and up	254	382	90	416	54	56	7	14
	1298	1294	885	776	543	671	254	276
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	38	1294 F 453 O	9	776 F 239 O	20	671 F 173 O	5	276 F 28 O
Office help only	29	113	16	110	5	17	3	10
No female employees Not operating etc.	11	—	1	—	1	—	1	—
Wage sheets collected	78		26		26		9	
Total number employees		1860		1125		861		314

Order No 31
LAUNDRY TRADE—RETURNS FOR AUGUST, 1937

	Toronto		Other cities over 50,000		Under 50,000	
	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	112	132	87	92	135	158
Total number female employees	1585	1772	788	865	671	904
Over 18 years	1525	1702	745	800	656	855
Under 18 years	60	70	43	65	15	49
Average hours worked per week (normally)	45½	47	46	47	48	48
Hourly rate of wages:						
Under 12c	1	2	1	—	3	1
12c-16c	1	1	5	—	22	6
16c-18c	1	2	14	—	22	44
18c-20c	51	58	7	40	39	76
20c-22c	63	75	37	35	97	102
22c-24c	37	20	30	31	261	340
24c-26c	43	70	369	503	91	154
26c-28c	931	997	143	74	31	31
28c-36c	377	424	154	139	79	100
36c and up	80	123	28	43	26	50
	1585	1772	788	865	671	904
	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:						
Factory help and office help	132	1772 F	92	865 F	158	904 F
		241 O		90 O		110 O
Office help only	4	10	12	15	2	9
No female employees } Out of business etc. }	66	—	46	—	36	—
Wage sheets collected	202		150		196	
Total number employees		2023		970		1023

Order No. 32

THEATRES AND AMUSEMENT PLACES—RETURNS FOR SEPTEMBER, 1937

	Toronto		Other cities over 50,000		Rest of Province	
	1936	1937	1936	1937	1936	1937
Number of theatres reporting employees	89	93	40	40	103	104
Total number of female employees	194	198	109	112	188	197
Over 18 years	193	198	108	111	186	195
Under 18 years	1	—	1	1	2	2
Range of hours worked per week	2—48	3—51	4¼—48	2½—48	4—54	3—48
Hourly rate of wages:						
Under 12 cts.	—	—	—	—	—	—
12-16	—	—	—	—	1	1
16-18	—	—	—	—	—	1
18-20	—	—	—	—	—	—
20-22	—	2	—	—	3	1
22-24	1	—	—	—	2	1
24-26	1	3	10	5	28	40
26-28	4	2	15	19	12	7
28-36	102	109	51	58	78	89
36-up	86	82	33	30	64	57
	194	198	109	112	188	197

	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:						
Theatre Employees	93	198	40	112	104	197
No female help	1	—	—	—	3	—
Not operating	—	—	—	—	—	—
Wage sheets collected	94		40		107	
Total number employees		198		112		197

Order No. 34
FOOD TRADE—RETURNS FOR MAY, 1937

	Toronto		Other cities over 50,000		5,000-50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	111	120	62	65	51	52	28	38
Total number of female employees	2560	2633	942	1019	1020	1117	372	450
Over 18 years	2349	2413	882	947	926	1031	354	435
Under 18 years	211	220	60	72	94	86	18	15
Average hours worked per week (normally)	46	45	46	46	47	52	50	51
Hourly rate of wages:								
Under 12c	—	—	—	—	1	3	—	4
12c-16c	1	—	—	3	22	25	11	22
16c-18c	77	61	27	25	38	19	13	14
18c-20c	73	60	26	36	65	69	34	45
20c-22c	63	105	71	113	110	98	59	85
22c-24c	118	57	44	56	344	179	61	44
24c-26c	153	154	373	371	199	260	54	32
26c-28c	787	519	154	119	104	156	49	19
28c-36c	1109	1268	175	228	108	264	86	139
36c and up	179	409	72	68	29	44	5	46
	2560	2633	942	1019	1020	1117	372	450
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	120	2633 F 488 O	65	1019 F 200 O	52	1117 F 136 O	38	450 F 60 O
Office help only	80	313	50	156	118	258	64	105
No female employees Not operating, etc.	30	—	15	—	25	—	10	—
Wage sheets collected	230		130		195		112	
Total number employees		3434		1375		1511		615

Order No. 35

MISCELLANEOUS TRADE—RETURNS FOR SEPTEMBER, 1937

	Toronto		Other cities over 50,000		5,000-50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	160	152	70	69	106	112	69	71
Total number of female employees	1586	1706	1049	1310	1756	1945	807	897
Over 18 years	1480	1518	1026	1263	1593	1781	742	808
Under 18 years	106	188	23	47	163	164	65	89
Average hours worked per week (normally)	44½	45	44	43	48	44	47	47
Hourly rate of wages:								
Under 12c	—	—	—	—	1	—	7	1
12c-16c	—	—	2	1	18	12	35	30
16c-18c	50	54	11	9	11	10	31	60
18c-20c	33	44	10	6	45	63	144	155
20c-22c	83	122	55	50	101	118	188	183
22c-24c	86	86	83	39	425	267	102	108
24c-26c	65	116	263	223	372	280	122	94
26c-28c	424	314	132	98	145	224	47	72
28c-36c	687	783	306	412	482	661	103	157
36c and up	158	187	187	472	156	310	28	37
	1586	1706	1049	1310	1756	1945	807	897
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	125	1706 F 527 O	69	1310 F 513 O	112	1945 F 591 O	71	897 F 183 O
Office help only	386	1635	223	638	277	771	108	270
No female help Out of business etc.	122	—	17	—	90	—	38	—
Wage sheets collected	660		309		479		217	
Total number employees		3868		2461		3307		1350

Order No. 36

TOBACCO TRADE—RETURNS FOR DECEMBER, 1937

	Toronto		Other cities over 50,000		5,000-50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	7	5	3	2	2	2	8	8
Total number of female employees	264	274	307	312	261	348	1144	1587
Over 18 years	254	266	282	287	259	335	1058	1517
Under 18 years	10	8	25	25	2	13	86	70
Average hours worked per week (normally)	44	45	44	44	47	47	48	49
Hourly rate of wages:								
Under 12c	—	—	—	—	—	2	2	3
12c-16c	—	—	—	1	—	—	34	37
16c-18c	2	—	1	—	3	2	87	135
18c-20c	4	—	—	—	4	57	109	169
20c-22c	7	8	56	39	8	25	110	140
22c-24c	16	18	17	25	15	40	113	118
24c-26c	11	23	49	58	25	32	239	183
26c-28c	26	35	34	27	88	12	276	178
28c-36c	35	53	144	149	66	78	151	405
36c and up	163	137	6	13	52	100	23	219
	264	274	307	312	261	348	1144	1587
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	5	274 F 7 O	2	312 F 21 O	2	348 F 3 O	8	1587 F 10 O
Office help only	10	24	3	5	6	7	—	—
No female help Out of business etc.	8	—	2	—	—	—	—	—
Wage sheets collected	23		7		8		10	
Total number employees		305		338		358		1597

Order No. 37

RUBBER TRADE—RETURNS FOR OCTOBER, 1937

	Toronto		Other cities over 50,000		5,000-50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	6	6	1	1	11	13	3	3
Total number of female employees	448	458	78	100	1025	1515	40	50
Over 18 years	443	445	78	100	946	1379	36	48
Under 18 years	15	13	—	—	79	136	4	2
Average hours worked per week (normally)	47	45	44	40	50	50½	52	51
Hourly rate of wages:								
Under 12c	—	—	—	—	—	—	—	—
12c-16c	—	—	—	—	16	8	3	4
16c-18c	1	—	—	—	12	22	2	1
18c-20c	1	—	—	—	50	81	16	13
20c-22c	23	—	—	—	42	72	—	—
22c-24c	—	2	1	—	165	92	2	2
24c-26c	6	8	—	—	124	94	2	4
26c-28c	20	8	1	—	148	107	1	—
28c-36c	131	84	59	1	391	743	13	21
36c and up	266	356	17	99	77	296	1	5
	448	458	78	100	1025	1515	40	50
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	6	458 F 97 O	1	100 F 19 O	13	1515 F 238 O	3	50 F 13 O
Office help only	11	38	6	8	1	13	—	—
No female help Out of business etc.	5	—	—	—	—	—	1	—
Wage sheets collected	22		7		14		4	
Total number employees		593		127		1766		63

Order No. 38

JEWELLERY TRADE—RETURNS FOR NOVEMBER, 1937

	Toronto		Other cities over 50,000		Under 50,000	
	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	22	22	4	4	10	9
Total number female employees	187	182	15	22	165	188
Over 18 years	164	141	15	21	138	153
Under 18 years	23	41	—	1	27	35
Average hours worked per week (normally)	45	45	44½	45	47	48
Hourly rate of wages:						
Under 12c	—	—	—	—	—	1
12c-16c	28	9	—	—	19	11
16c-18c	3	17	1	1	9	1
18c-20c	8	17	1	—	13	15
20c-22c	17	10	1	—	22	32
22c-24c	9	2	3	2	15	10
24c-26c	6	6	1	6	26	45
26c-28c	32	35	—	—	11	15
28c-36c	67	64	3	9	31	34
36c and up	17	22	5	4	19	24
	187	182	15	22	165	188
	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:						
Factory help and office help	22	182 F 88 O	4	22 F 16 O	9	188 F 35 O
Office help only	17	65	6	23	2	2
No female employees Not operating etc.	2	—	2	—	1	—
Wage sheets collected	41		12		12	
Total number employees		335		61		225

Order No. 39

PAPER TRADE—RETURNS FOR FEBRUARY, 1938

	Toronto		Other cities over 50,000		5,000-50,000		Under 5,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	196	221	74	76	82	84	41	33
Total number of female employees	2494	2563	974	1054	682	690	228	290
Over 18 years	2349	2401	942	1023	654	666	217	269
Under 18 years	145	162	32	31	28	24	11	21
Average hours worked per week (normally)	46	44	47	46	48	47	46	46
Hourly rate of wages:								
Under 12c	—	1	—	—	3	—	1	1
12c-16c	—	2	—	1	9	10	9	8
16c-18c	77	33	16	2	5	9	6	13
18c-20c	53	58	27	11	29	19	7	8
20c-22c	74	73	34	36	43	35	36	23
22c-24c	83	78	53	67	168	162	13	12
24c-26c	93	65	277	181	98	106	16	18
26c-28c	476	400	222	246	76	52	34	31
28c-36c	1244	1306	297	444	208	171	93	124
36c and up	394	547	48	66	43	126	13	52
	2494	2563	974	1054	682	690	228	290
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	221	2563 F 909 O	76	1054 F 345 O	84	690 F 263 O	33	290 F 63 O
Office help only	146	832	30	133	23	81	23	48
No female help Out of business etc.	10	—	15	—	8	—	14	—
Wage sheets collected	377		121		115		70	
Total number employees		4304		1532		1034		401

Order No. 41

CUSTOM MILLINERY TRADE—RETURNS FOR APRIL, 1937

	Toronto		Other cities over 50,000		4,000-50,000	
	1936	1937	1936	1937	1936	1937
Number of firms reporting female employees	32	37	23	21	24	23
Total number female employees	214	223	62	56	40	44
Over 18 years	209	219	62	56	40	44
Under 18 years	5	4	—	—	—	—
Average hours worked per week (normally)	46	46	47	48	48	50
Hourly rate of wages:						
Under 12c	3	—	—	—	2	1
12c-16c	5	8	1	—	2	1
16c-18c	6	5	—	1	—	—
18c-20c	7	3	1	—	2	—
20c-22c	6	2	1	—	1	—
22c-24c	2	5	—	—	3	2
24c-26c	2	9	14	12	5	10
26c-28c	17	7	8	4	3	8
28c-36c	80	36	25	26	12	12
36c and up	86	148	12	13	10	10
	214	223	62	56	40	44
	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:						
Female employees in the industry and office help	37	223 F 2 O	21	56F	23	44 F
Office help only	1	1	—	—	—	—
No female help Out of business, etc.	9	—	7	—	4	—
Wage sheets collected	47		28		27	
Total number employees		226		56		44

Order No. 42

HAIRDRESSING AND BEAUTY PARLOURS—RETURNS FOR MAY, 1937

	Toronto		Other cities over 50,000		10,000-50,000		5,000-10,000	
	1936	1937	1936	1937	1936	1937	1936	1937
Number of firms reporting employees	285	323	170	180	150	153	34	44
Total number of female employees	754	860	356	379	222	274	44	75
Over 18 years	740	853	356	379	222	274	44	75
Under 18 years	14	7	—	—	—	—	—	—
Average hours worked per week (normally)	45	48	48	47	50	47	50	49½
Hourly rate of wages:								
Under 12c	5	10	2	18	16	25	5	4
12c-16c	28	12	21	12	12	8	2	7
16c-18c	14	17	5	6	8	6	—	4
18c-20c	19	14	8	7	11	10	4	2
20c-22c	19	16	6	17	21	13	5	6
22c-24c	7	7	6	5	22	54	4	4
24c-26c	18	26	105	110	33	42	8	13
26c-28c	260	273	35	43	21	13	4	7
28c-36c	222	286	110	92	44	58	6	16
36c and up	162	199	58	69	34	45	6	12
	754	860	356	379	222	274	44	75
	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Hairdressing and Beauy Parlour operators	323	860	180	379	153	274	44	75
No female employees Not operating	89	—	42	—	45	—	18	—
Wage sheets collected	412		222		198		62	
Total number employees		860		379		274		75

ORDER No. 47
SEASONAL CANNERS—RETURNS FOR OCTOBER, 1937

	Cities over 50,000 excepting Toronto, 1937	5,000-50,000		2,000-5,000		Under 2,000	
		1936	1937	1936	1937	1936	1937
Number of firms reporting employees	2	10	13	21	24	54	77
Total number of female employees	485	808	1347	1395	2644	4286	5269
Over 18 years	485	745	1280	1340	2614	4106	5017
Under 18 years	—	63	67	55	30	180	252
Average hours worked per week (normally)	60	54	56	52	50½	51	56
Hourly rate of wages:							
Under 12c	1	4	9	12	19	76	111
12c-16c	22	37	36	116	85	389	432
16c-18c	18	16	41	41	78	211	202
18c-20c	48	28	49	69	86	2135	1000
20c-22c	64	71	86	566	711	834	1373
22c-24c	156	538	580	336	351	211	862
24c-26c	71	70	272	85	208	156	588
26c-28c	28	24	62	61	65	98	165
28c-36c	72	15	203	99	473	155	412
36c and up	5	5	9	10	568	21	124
	485	808	1347	1395	2644	4286	5269

	Employers	Employees	Employers	Employees	Employers	Employees	Employers	Employees
Number reporting 1937 only:								
Factory help and office help	2	485 F	13	1347 F 13 O	24	2644 F 30 O	77	5269 F 38 O
Office help only	—	—	1	18	1	1	—	—
Not operating etc.	—	—	2	—	4	—	14	—
Wage sheets collected	2		16		29		91	
Total number of female employees		485		1378		2675		5307

APPENDIX

STRIKES AND LOCKOUTS IN ONTARIO, FISCAL YEAR 1938

(From figures published in Labour Gazette)

Industries	Number of disputes in progress	Number of persons involved	Aggregate duration in working days
Agriculture	1	40	25
Logging	4	700	4,800
Manufacturing—			
Boots and shoes	8	1,364	10,800
Fur and leather	5	618	20,505
Metal products	9	4,991	71,904
Non-metallic minerals	3	307	93
Printing	3	133	1,469
Rubber	4	1,325	29,405
Textiles and clothing	23	7,341	102,812
Tobacco and liquors	2	167	824
Vegetable foods	6	322	1,301
Wood products, miscellaneous	14	1,296	13,129
Miscellaneous manufacturing	3	388	3,954
Construction—			
Buildings and structures	5	127	826
Highway	6	179	611
Transportation—			
Water	10	1,033	17,460
Electric	2	61	206
Service—			
Business and personal	7	114	2,682
Public administration	1	12	48
Recreational	4	700	6,325
Trade	7	1,531	5,727
Totals 1938	127	22,749	294,906
" —1937	78	13,251	148,929
" —1936	50	9,120	78,511
" —1934	94	18,198	256,311
" —1933	39	7,380	109,240
" —1932	26	2,432	50,401
" —1931	18	2,827	66,268
" —1930	21	4,315	50,513
" —1929	43	5,172	75,870
" —1928	52	5,622	59,889
" —1927	25	4,403	56,695
" —1926	17	1,839	46,402
" —1925	21	2,499	27,477
" —1924	19	3,943	95,196
" —1923	16	1,946	198,319
" —1922	23	2,712	367,893
" —1921	53	10,800	521,210

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
			Carried Over From Previous Year		
Kingsville	Tobacco workers	Mar. 18 1937	For adjustment of piece rates; terminated April 6; in favour of workers; provincial negotiations.	156	780
Kitchener	Rubber factory workers	Mar. 24	For increased wages, reduced hours and recognition of union; terminated April 6; compromise.	550	2,000
Toronto	Beverage dispensers	Mar. 4	For union agreement with increased wages; employment conditions no longer affected by end of April; in favour of employer.	8	100
			Commenced During Fiscal Year		
Hanover	Flour and feed mill workers	Apr. 10	For recognition of shop committee, increased wages and reduced hours; terminated April 17, 1937; compromise.	10	70
Perth	Shoe factory workers	Apr. 14	For increased wages and closed shop agreement; terminated May 15, by conciliation (Dominion); compromise on wages and agreement.	185	4,500
Brantford	Men's work clothing factory workers	Apr. 2	For increased wages and union agreement; terminated April 13; compromise.	56	460
Toronto	Knitting factory workers (silk)	Apr. 28	For union agreement with increased wages; terminated May 20; employees' committee to be recognized and wages adjusted; provincial negotiation.	300	5,000
Hanover	Furniture factory workers	Apr. 7	Against discharge of workers, alleged to be for union activity and for recognition of shop committee; terminated May 1 by negotiations, shop committee to be recognized and men reinstated: provincial negotiation.	73	1,573

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Hanover	Furniture factory workers	Apr. 9	For union recognition; terminated April 13; in favour of workers; provincial negotiation.	105	420
Chesley	Furniture factory workers	Apr. 13	Against discharge of workers and for increased wages; terminated April 17; compromise.	35	175
Kitchener	Furniture factory workers	Apr. 9	For increased wages and reduced hours; terminated April 10; in favour of workers; provincial negotiation.	53	106
Toronto	Commercial artists	Apr. 20	For union agreement with increased wages and reduced hours; terminated May 8 by conciliation (Dominion); union agreement with several firms; compromise on wage increase.	85	1,175
Toronto	Commercial artists	Apr. 29	Sympathy with strike of artists commencing April 20; terminated May 8; compromise.	25	225
Cobourg	Small-arms factory workers	Apr. 1	For increase in wage and reduction in hours; terminated April 1; compromise; provincial negotiation.	63	16
Oshawa	Automobile factory workers	Apr. 8	For union agreement; terminated April 24; compromise; provincial negotiation.	4,200	63,000
Guelph	Moulders	Apr. 20	For increased wages and reduced hours; terminated by conciliation (Crown Attorney); compromise on wage increase; May 3rd.	47	564
Hamilton	Structural steel workers	Apr. 12	For increased wages; terminated April 15; compromise.	13	30
Toronto	Longshoremen	Apr. 15	For increased wages; terminated May 15 by conciliation (Dominion) and negotiations; compromise.	350	8,500

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Hamilton	Longshoremen	Apr. 15	For union recognition, increased wages and improved conditions; terminated May 15 by conciliation (Dominion) and negotiations; compromise.	214	5,100
Point Edward	Longshoremen	Apr. 16	For increased wages; terminated May 15 by conciliation (Dominion) and negotiations; compromise.	150	2,500
Toronto	Milk wagon drivers	Apr. 14	For union agreement; terminated April 18; in favour of workers.	26	104
Toronto	Bottle washers	Apr. 21	For increased wages and reduced hours; terminated June 15; by negotiations; compromise.	5	230
Beamsville	Municipal quarry workers	Apr. 21	For increased wages; terminated April 24; compromise.	12	48
St. Davids	Cannery workers	May 27	For increased wages; terminated by negotiations the same day; compromise.	165	83
Kincardine	Knitting and spinning factory workers	May 4	Alleged lockout for union activity; partial return of workers; lapsed early in June; provincial negotiation.	200	2,250
Toronto	Tailors	May 20	For union recognition, wage increase, etc.; employment conditions no longer affected by end of September; replacement; in favour of employer.	20	1,920
Tavistock	Box and barrel factory workers	May 17	For increased wages and for shop committee; terminated May 17 by conciliation (provincial); in favour of workers.	50	50
Toronto	Furniture factory workers	May 25	For agreement with wage increases, etc.; terminated June 2, 3 and 16; by negotiations and conciliation (provincial); in favour of workers.	110	1,100

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Windsor	Automobile seat spring factory workers	May 11	For union recognition, increased wages, reduced hours; terminated May 19; conciliation (provincial); compromise.	200	1,300
Windsor	Automobile castings factory workers	May 13	For increased wages, reduced hours and union recognition; terminated June 5; by conciliation (provincial); in favour of workers.	200	4,000
Toronto	Sheet metal workers	May 31	For increased wages: terminated June 10; conciliation (provincial); compromise.	85	850
New Toronto	Labourers and cement finishers	May 4	For increased wages and reduced hours; lapsed May 15; job closed down.	40	400
Toronto	Cleaners and dyers	May 11	For increased wages, reduced hours and union agreement; terminated May 11 by negotiations; compromise; hours reduced, wage increase pending.	35	30
Toronto	Rubber factory workers	June 21	Against discharge of workers alleged to be for union activity; terminated September 11; return of workers; in favour of employer; provincial negotiations.	35	2,325
Toronto	Tannery employees	June 1	Against employment of a certain worker; employment conditions no longer affected by July 26; in favour of employer.	400	18,000
Renfrew	Textile factory workers (woollens)	June 14	For increased wages; terminated June 14; work resumed pending negotiations; indefinite.	75	70
Renfrew	Textile factory workers (woollens)	June 18	For increased wages: terminated June 24; by negotiation 10% increase made.	39	215

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Renfrew	Textile factory workers (woollens)	June 19	For increase in wages and reduction in hours; terminated June 24; by conciliation (provincial); compromise; wages increased 10%, committee for future adjustments.	125	600
Renfrew	Textile factory workers (woollens)	June 19	For increases in wages and reduced hours; terminated June 28; by conciliation (provincial); compromise on wages, hours and working conditions to be negotiated by committee.	110	700
Brockville	Hat factory workers	June 26	For union recognition, increase in wages and changes in working conditions; terminated August 21; conciliation (provincial); compromise.	174	10,696
Peterborough	Textile factory workers (woollens)	June 29	For increased wages; terminated August 19 and 20; conciliation (provincial); compromise.	340	13,600
Hespeler	Enamelware factory workers	June 8	For increased wages and changes in working conditions; terminated June 24; by conciliation (provincial); compromise.	142	2,000
Oshawa	Trainmen (freight)	June 21	For increased wages; terminated June 26; conciliation (Dominion); work resumed pending negotiations.	21	126
Spanish	Pulpwood loaders	June 27	For increased wages, 50 cents per hour instead of piece work; terminated June 27; negotiations; compromise; wages increased 40 cents.	30	27
Toronto	Dairy drivers	June 30	Against dismissal of worker; terminated June 30; negotiations in favour of workers; union agreement to be negotiated; provincial negotiation.	35	18
Ottawa	Caddies (golf)	June 27	For increased wages; terminated June 30; replacement and return of workers; in favour of employer.	75	300

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Kitchener	Rubber factory workers	July 14	Against employment of non-union workers; terminated July 15; negotiations; in favour of workers.	40	80
Toronto	Leather garment factory workers	July 1	For renewal of agreement with increased wage rates; terminated July 3; negotiations; in favour of workers.	35	105
Cornwall	Cotton factory workers	July 21	For recognition of union, increased wages and improved working conditions; terminated August 21; conciliation (provincial); compromise.	1,700	45,000
Blind River	Sawmill workers	July 8	Increased wages and union recognition; terminated July 20; conciliation (provincial); compromise of wage increase and workers' committee recognized.	100	1,000
Thessalon	Sawmill workers	July 10	For increased wages; terminated July 19; negotiations; compromise.	200	1,800
Foleyet and Tionaga	Sawmill workers	July 22	For union recognition and wage increase; terminated August 19; conciliation (provincial); compromise.	150	3,400
Ottawa	Moulders	July 12	For increase in wages and against short time; terminated July 19; negotiations; in favour of workers.	6	30
Cooksville	Brick and tile workers	July 5	For increased wages; terminated July 5; negotiations; in favour of workers.	266	66
Kitchener	Button factory workers	July 26	Against changes in working conditions; terminated July 31; in favour employer.	15	90
Port Hope	Steel erectors	July 5	For extra pay for work out of town; terminated July 7; negotiations in favour of workers.	10	30

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Pelee Island	Stone crushers	July 15	For increased wages; terminated July 16; replacement of strikers: in favour of employer.	18	18
Meaford	Pulpwood loaders	July 4	For increased wages; terminated July 4; replacement; in favour of employer.	18	18
Thorold	Pulpwood loaders	July 6	For union recognition and increased wages; terminated July 13; negotiations in favour of workers; provincial negotiation.	150	1,200
Toronto	Caddies (golf)	July 1	For increased wages and certain playing privileges; terminated July 12; negotiations; compromise.	500	5,500
Toronto	Caddies (golf)	July 3	For increased wage rates; terminated July 7; negotiations; compromise.	100	500
Cobourg	Caddies (golf)	July 23	For increased wages; terminated July 23; negotiations; in favour of workers.	25	25
Kenora District	Road construction workers	July 28	For changes in working conditions; (complaints against contractor); terminated August 4; job closed down; indefinite.	31	62
Huntsville	Leather factory workers	Aug. 13	For increased wages and closed union shop; terminated August 26; conciliation (provincial); compromise.	135	1,550
Preston	Shoe factory workers	Aug. 11	Against dismissal of worker; terminated August 12; negotiations; in favour of workers.	140	210
Cornwall	Clothing factory workers	Aug. 25	For union recognition and against dismissal of workers alleged to be for union activity; terminated September 15; negotiations; in favour of workers; provincial negotiation.	250	4,500

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Cornwall	Cotton factory workers	Aug. 26	Alleged discrimination; discharge of workers; terminated August 31; conciliation (provincial); in favour of employer.	1,700	8,000
Kitchener	Brick and tile plant workers	Aug. 5	Against discharge of workers for misconduct and for increased wages: terminated August 5; return of workers; in favour of employer.	12	12
Milton	Brick plant workers	Aug. 3	For increased wages; terminated August 3; negotiations; in favour of workers.	29	15
Cornwall	Carpenters	Aug. 24	For dismissal of foreman who discharged certain employees; terminated August 24; conciliation (provincial); compromise: discharged men reinstated.	25	25
Coboconk	Road construction workers	Aug. 16	Against "no smoking" order; terminated August 16; negotiations; in favour of workers.	29	29
Owen Sound	Longshoremen	Aug. 11	For increased wages; terminated August 11; return of workers; in favour of employer.	60	18
Toronto	Dress factory workers (children's)	Aug. 2	Alleged lockout of union workers; terminated December 20; return of workers: in favour of employer.	5	440
Brampton	Greenhouse employees	Sept. 9	For increased wages; terminated September 9; negotiations; compromise.	40	25
Hamilton	Bakery workers	Sept. 13	For union recognition, increased wages, reduced hours and improved conditions; terminated September 13; negotiations; in favour of workers.	51	38

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Port Colborne	Flour mill workers	Sept. 22	For recognition of union, reinstatement of discharged union worker and better distribution of work in slack periods; terminated September 29; negotiations; partially successful.	65	390
Kitchener	Rubber factory workers	Sept. 23	For increased wages, overtime rates after 10 hours, etc.; terminated November 4; conciliation (provincial); compromise.	700	25,000
Port Colborne	Shoe factory workers	Sept. 29	For union recognition, reduced hours and wage increase; terminated September 29; negotiations; partially successful.	400	400
Preston	Furniture factory workers	Sept. 9	For adjustment in wage rates and union recognition; terminated September 11; negotiations; compromise.	60	180
Guelph	Moulders	Sept. 18	Against dismissal of workers; terminated September 21; negotiations; compromise; provincial negotiation.	48	144
Gravenhurst	Brush factory workers	Sept. 23	For closed shop agreement; terminated October 13; negotiations; compromise.	148	2,664
Galt District	Labourers	Sept. 14	For increased wages; terminated September 15; conciliation (provincial); in favour of workers.	40	80
Toronto	Dairy employees	Sept. 17	For closed shop union agreement; lapsed by December 31; in favour of employer.	55	3,390
Sarnia	Grain elevator employees	Sept. 30	For increased wages and payment for waiting time; terminated October 12; replacement; in favour of employer.	36	72

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Toronto	Bakery workers	Oct. 9	Against discharge of union workers; and for increased wages and reduced hours in new agreement; terminated November 13; conciliation (provincial); compromise.	20	620
Cornwall	Cotton factory workers	Oct. 14	For change from piece work basis of payment to hourly rates; terminated October 16; negotiations; in favour of employer.	11	27
Hanover	Furniture factory workers	Oct. 1	For increased wages and discharge of non-union workers; terminated Oct. 30; conciliation (local); wages increased and men joined union; in favour of workers.	75	1,950
Preston	Wood factory workers	Oct. 8	For increased wages and reduced hours; terminated October 12; conciliation (provincial); compromise.	70	175
Toronto	Furniture factory workers Upholsterers	Oct. 20	For renewal of agreement with increased wages; terminated October 23; negotiations; in favour of workers.	125	500
Toronto	Jewelry workers	Oct. 1	For renewal of agreement providing for increased wages; terminated October 8; negotiations; in favour of workers.	225	1,200
Toronto	Building trades workers	Oct. 1	For employment of union workers only; terminated October 1; replacement in favour of employer.	25	25
Moobeam	Truck drivers	Oct. 18	For increased contract rates; terminated October 19; negotiations; compromise.	26	52
Thorold	Stevedores	Oct. 21	For increased wages; terminated October 22; replacement and return of workers; in favour of employer.	12	12

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Toronto	Cleaners and dyers	Oct. 18	For continuation of expired union agreement; terminated November 6; conciliation (provincial); in favour of workers.	10	180
Toronto	Hotel employees	Oct. 22	For increased wages, reduced hours and improved conditions; terminated October 30; negotiations; compromise.	20	160
Fort Frances	Loggers	Nov. 2	Against discharge of camp steward; terminated November 6; camp closed; in favour of employer.	80	300
Peninsula	Loggers	Nov. 8	Against charging board on Sundays; terminated November 10; conciliation (provincial); in favour of workers.	100	300
Toronto	Winery employees	Nov. 3	For increased wages, shorter hours and recognition of union; terminated November 6; conciliation (provincial); in favour of workers.	11	44
Brampton	Shoe factory workers	Nov. 24	Alleged discrimination against union workers; terminated December 11; conciliation (provincial); compromise.	47	745
Cornwall	Cotton factory workers	Nov. 23	Re seniority; terminated November 27; conciliation (provincial); in favour of employer.	22	110
Walkerton	Spool and bobbin workers	Nov. 19	For increased wages and union recognition; terminated November 27; conciliation (provincial) compromise.	90	700
Windsor	Plumbers	Nov. 15	For increased wages; terminated December 4; negotiations (provincial); compromise.	54	716
Port Arthur	Truck drivers	Nov. 10	For hourly rates of wages and reduced speed of trucks; terminated November 11; negotiations; in favour of workers.	35	50

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Fort William	Deckhands and firemen	Nov. 5	For increased wages; terminated November 8; negotiations; in favour of workers.	13	13
Port Colborne	Shoe factory workers	Dec. 6	For increased wage rates for trimmers; terminated December 11; conciliation (provincial); in favour of workers.	475	2,850
Kirkland Lake	Retail store employees	Dec. 21	For union recognition and continuity of employment; terminated December 24; negotiations; compromise.	10	35
Toronto	Cleaners and dyers	Dec. 9	Against dismissal of union employee and for continuation of union agreement; employment conditions no longer affected by March 31; replacement; in favour of employer.	8	592
Toronto	Hotel employees	Dec. 6	Alleged lockout; re recognition of union; employment conditions no longer affected by December 31; in favour of employer.	11	242
McKirdy	Pulpwood cutters	Jan. 8	For improved living conditions; terminated Jan--uary 22; conciliation (provincial); compromise.	420	4,000
McKirdy	Pulpwood cutters	Jan. 18	For discharge of foreman; terminated January 19; negotiations; in favour of workers.	100	200
Perth	Shoe factory workers	Jan. 6	For increased wages and union recognition; terminated February 5; replacement and return of workers; in favour of employer	70	1,800
Toronto	Shoe factory workers	Jan. 12	For employment of union members only; terminated January 19; conciliation (provincial); in favour of workers.	35	245

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Toronto	Dress factory workers (cutters)	Jan. 21	For union agreement with increased wages; employment conditions no longer affected by March 31; replacement; in favour of employer.	17	708
Toronto	Dress factory workers (cutters)	Jan. 26	For recognition of union and increased wages; employment conditions no longer affected by March 31; replacement; in favour of employer.	12	436
Toronto	Dress factory workers	Jan. 27	For union agreement with increased wages; terminated January 27; negotiations; in favour of workers.	500	500
Toronto	Coal handlers, drivers, etc.	Jan. 19	For increased wages; terminated January 19; conciliation (provincial); in favour of workers.	200	150
Toronto	Cleaners and dyers	Jan. 3	Alleged lockout of union employees; employment conditions no longer affected by March 31; replacement; in favour of employer.	22	1,378
Kitchener	Bakery drivers	Feb. 3	For closed shop union agreement with increased wages; terminated February 12; conciliation (municipal); in favour of workers.	11	100
Toronto	Shoe factory workers	Feb. 3	Alleged violation of agreement; terminated February 7; plant closed and moved; indefinite.	12	50
Cornwall	Cotton factory workers	Feb. 11	Against alleged "speed-up", discrimination and wage reductions; terminated February 15; conciliation (provincial); compromise.	22	75
Woodstock	Textile factory workers	Feb. 28	Alleged lockout re increased wages and reduced hours; terminated March 26; return of workers; in favour of employer.	155	2,155

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Toronto	Coal drivers and handlers	Feb. 18	For increased wages; terminated February 19; conciliation (provincial); indefinite.	1,200	1,800
Toronto	Fur factory workers	Mar. 4	Against employment of workers of another union; unterminated at the end of the fiscal year.	23	550
Toronto	Fur factory workers	Mar. 17	Against sending work to shop employing members of another union; unterminated at end of fiscal year.	25	300
Toronto	Cap factory workers	Mar. 2	Against lay-off of union members and for union agreement; unterminated at the end of fiscal year.	8	100
Cornwall	Cotton factory workers	Mar. 25	For change in working conditions; terminated March 29; conciliation (municipal); compromise.	1,500	5,250
Toronto	Commercial artists	Mar. 29	For renewal of union agreement; unterminated at end of fiscal year.	23	69
Totals			127 Disputes	22,749	294,906

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Toronto	Dress factory workers (cutters)	Jan. 21	For union agreement with increased wages; employment conditions no longer affected by March 31; replacement; in favour of employer.	17	708
Toronto	Dress factory workers (cutters)	Jan. 26	For recognition of union and increased wages; employment conditions no longer affected by March 31; replacement; in favour of employer.	12	436
Toronto	Dress factory workers	Jan. 27	For union agreement with increased wages; terminated January 27; negotiations; in favour of workers.	500	500
Toronto	Coal handlers, drivers, etc.	Jan. 19	For increased wages; terminated January 19; conciliation (provincial); in favour of workers.	200	150
Toronto	Cleaners and dyers	Jan. 3	Alleged lockout of union employees; employment conditions no longer affected by March 31; replacement; in favour of employer.	22	1,378
Kitchener	Bakery drivers	Feb. 3	For closed shop union agreement with increased wages; terminated February 12; conciliation (municipal); in favour of workers.	11	100
Toronto	Shoe factory workers	Feb. 3	Alleged violation of agreement; terminated February 7; plant closed and moved; indefinite.	12	50
Cornwall	Cotton factory workers	Feb. 11	Against alleged "speed-up", discrimination and wage reductions; terminated February 15; conciliation (provincial); compromise.	22	75
Woodstock	Textile factory workers	Feb. 28	Alleged lockout re increased wages and reduced hours; terminated March 26; return of workers; in favour of employer.	155	2,155

STRIKES AND LOCKOUTS IN ONTARIO DURING FISCAL YEAR 1938
Continued

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in working days
Toronto	Coal drivers and handlers	Feb. 18	For increased wages; terminated February 19; conciliation (provincial); indefinite.	1,200	1,800
Toronto	Fur factory workers	Mar. 4	Against employment of workers of another union; unterminated at the end of the fiscal year.	23	550
Toronto	Fur factory workers	Mar. 17	Against sending work to shop employing members of another union; unterminated at end of fiscal year.	25	300
Toronto	Cap factory workers	Mar. 2	Against lay-off of union members and for union agreement; unterminated at the end of fiscal year.	8	100
Cornwall	Cotton factory workers	Mar. 25	For change in working conditions; terminated March 29; conciliation (municipal); compromise.	1,500	5,250
Toronto	Commercial artists	Mar. 29	For renewal of union agreement; unterminated at end of fiscal year.	23	69
Totals			127 Disputes	22,749	294,906

REPORT

OF THE

Minister of Education

Province of Ontario

FOR THE YEAR

1938

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 11, 1939

ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1939

THE HUNTER-ROSE CO., LIMITED TORONTO
HR
PRINTERS BOOKBINDERS

TABLE OF CONTENTS

PAGE

REPORT OF THE MINISTER 1

APPENDICES

PART I

Appendix A—Report of the Chief Inspector of Public and Separate Schools 5
Appendix B—Report of the Chief Inspector of Secondary Schools 16
Appendix C—Report of the Director of Professional Training 21
Appendix D—Report of the Director of French Instruction on the Schools Attended by French-Speaking Pupils 24
Appendix E—Report of the Principal of the Ontario Training College for Technical Teachers 39
Appendix F—Report of the Inspector of Agricultural Classes 42
Appendix G—Report of the Inspector of Auxiliary Classes 48
Appendix H—Report of the Director of School Attendance 58
Appendix I—Report of the Superintendent of the Ontario School for the Deaf.. 62
Appendix J—Report of the Superintendent of the Ontario School for the Blind. 69
Appendix K—Report of the Inspector of Public Libraries 81
Appendix L—Report of the Provincial Supervisor of Music 99

PART II

Statistics of the Provincially-Controlled Schools of Ontario

Terminology 105
Summary for 1937 106
Average Costs per Pupil-Day, 1937, and Comparison with 1936 107
Education Contrasted with Other Municipal Services 108
Distribution of Pupils by Age, Sex and Grade, May, 1938 110

Comparative Statistics—
- I.—Elementary Schools:
  - A—Public and Separate Schools 112
  - B—Roman Catholic Separate Schools 116
  - C—Protestant Separate Schools 116
  - D—High School Entrance Examination Results 116
  - E—Fifth Classes 117
- II.—Secondary Schools:
  - A—Continuation Schools 117
  - B—Collegiate Institutes and High Schools 118
  - C—Vocational and Senior Auxiliary Schools 119
- III.—Teachers and Training Schools:
  - A—Normal and Normal-Model Schools 120
  - B—Departmental Summer Courses 121
  - C—Trend in Grade of Teachers' Certificates in English-French Schools 121
  - D—Professional Certificates Issued during the Last Ten Years 122
  - E—Teachers' Institutes 122
- IV.—Enrolment and Population:
  - A—Adolescent Enrolment and Exemptions 122
  - B—School Enrolment and Provincial Population 123
- V.—Comparative Summaries:
  - A—Pupils at Progressive Stages 123
  - B—General Statistical Abstract 124

Detailed Statistics—
- I. Elementary Schools:
  - A. Public and Separate Schools—
    - Table 1—Enrolment and Attendance 126
    - Table 2—Attendance Efficiency by Various Periods 132
    - Table 3—Admissions, Transfers, Retirements, Exemptions 132
    - Table 4—Classification of Rural Schools by Teachers and Attendance 133
    - Table 5—Fifth Classes (Grades IX and X) 134
    - Table 6—Distribution of Teachers and Certificates 136
    - Table 7—High School Entrance Examination Results 140
    - Table 8—Special Subjects in Rural Schools 147
    - Table 9—Educational and Health Equipment 150
    - Table 10—Report of Health Services 158
  - B. Public Schools—
    - Table 11—Age-Grade Distribution 164
    - Table 12—Number of Pupils Under Age, Normal Age, Over Age 167
    - Table 13—Percentage of Pupils Under Age, Normal Age, Over Age 168

Detailed Statistics—Continued PAGE

Table 14—Comparative Pupil Statistics—Ontario, South Africa, Australia, United States.... 169
Table 15—Efficiency Tests Applied to City Schools.... 170
Table 16—Promotion and Retardation, Cities, Large Towns, and Certain Suburban Areas.... 171
Table 17—Teachers' Salaries—Highest, Lowest, Average.... 173
Table 18—Teachers' Salaries—Range.... 175
Table 19—Teachers' Salaries—Trend in Lower Rural.... 176
Table 20—Percentage Teacher Turnover in Rural Schools.... 178
Table 21—Financial Statistics.... 180
Table 22—Percentage Analysis of Current Expenses in Cities and Large Towns 198
Table 23—Consolidated Schools.... 199
Table 24—Low Attendance Schools.... 201
Table 25—Protestant Separate Schools.... 203

C. Roman Catholic Separate Schools—
Table 26—Age-Grade Distribution.... 204
Table 27—Teachers' Salaries.... 207
Table 28—Financial Statistics.... 208

II. SECONDARY SCHOOLS:
A. General—
Table 29—Classification of Academic Pupils by Subjects of Study.... 217
Table 30—Admissions and Destinations of Pupils.... 218
Table 31—Departmental Examination Results.... 218
Table 32—Teachers' Salaries—Range.... 222
B. Continuation Schools—
Table 33—Enrolment, Attendance, Grade Distribution.... 225
Table 34—Age-Grade Distribution.... 228
Table 35—Financial Statistics.... 229
C. Collegiate Institutes and High Schools—
Table 36—Enrolment, Attendance, Grade Distribution.... 235
Table 37—Age-Grade Distribution.... 239
Table 38—Financial Statistics.... 240
D. Vocational Schools—
(1) Day Schools:
Table 39—Enrolment, Attendance, Grade Distribution.... 246
Table 40—Age-Grade Distribution.... 248
Table 41—Classification of Pupils by Subjects of Study.... 249
Table 42—Financial Statistics.... 250
(2) Night Schools:
Table 43—Teachers and Pupils.... 252
Table 44—Classification of Pupils by Subjects of Study.... 254

III. SENIOR AUXILIARY SCHOOLS:
Table 45—Enrolment, Attendance, Grade Distribution.... 255
Table 46—Age-Grade Distribution.... 255
Table 47—Financial Statistics.... 255

IV. MISCELLANEOUS:
Table 48—Professional Certificates Issued during 1938.... 256
Table 49—Classification of School Centres by Counties and Districts.... 257
Table 50—Inspectors and Inspectorates.... 261
Table 51—Departmental Publications.... 268

V. GRAPHS:
1. Education Contrasted with Other Municipal Services.... 109
2. Distribution of Attendance Losses—Elementary Schools.... 125
3. Trend in Elementary School Enrolment—Confederation to Present.... 125
4. Rural Teacher Turnover Compared with General Business Conditions.... 177
5. Relation of Current Expense to Assessment—Public Schools—Cities.... 179
6. Percentage Analysis of Current Expenditures—Public Schools—Cities.... 197
7. Contrast of Academic and Vocational Costs—Secondary Schools—Cities.. 251

VI. ILLUSTRATIONS:
1. Ontario's Most Northerly School.... 104
2. The School Car.... 104
3. Trend in School Buildings in Northern Ontario.... 115
4. Activities in a Home Economics Classroom.... 146
5. Good Classroom Lighting.... 157
6. Project Methods under New Course of Study.... 216
7. Modern Composite Schools.... 224

REPORT

OF THE

Minister of Education

FOR THE YEAR 1938

To The Honourable Albert Matthews, LL.D.,
Lieutenant-Governor of the Province of Ontario.

Your Honour,—

I beg leave to present to your Honour the Report of the Department of Education for the year 1938.

The revision of courses of study continued to engage the attention of the Department during the year. To the new courses issued in 1937 for Grades I to VI and Grade IX, were added revised courses for Grades VII, VIII, and X. This completed the programme for the first eight grades of the elementary schools, and carried the revision in secondary schools to the end of Grade X. The counsel of classroom teachers was constantly sought as the work of revision proceeded, and every effort was made to preserve the best elements of past practice while bringing the curriculum in line with the educational thought of to-day.

Teachers, inspectors, and all interested in the new programme were invited to offer suggestions for its further improvement. In May, 1938, a questionnaire was distributed to teachers who were completing their first year's experience with the revised courses for Grades I to VI. The replies proved helpful in determining the modifications to be made before the courses were reprinted for the next school year. From the information received it would appear that the courses as a whole are meeting the needs of Ontario children, and that the schools are responding with enthusiasm to the challenge of the new programme.

Active interest is evident throughout the province in the General Shop Work and Home Economics courses which now form a part of the regular curriculum in secondary schools. Approximately one hundred boards have either introduced such instruction or have taken steps to provide it in the near future. While local financial conditions may delay progress in some communities, it is clear that opportunities for this practical training have already greatly increased.

The instructional programme introduced in Grades IX and X has a two-fold purpose—firstly, to provide a good general training; and secondly, to permit pupils to discover their special aptitudes, skills, and abilities. The end of Grade X, accordingly, represents a milestone in the individual's progress, just as the High School Entrance and Junior Matriculation have long represented academic milestones. To mark the successful completion of Grades IX and X, a new certificate, called the Intermediate Certificate, is being introduced. This certificate will be granted solely on the recommendation of the local school principal, and is designed to provide a definite measure of achievement for the large number of students who leave secondary school after two years' attendance.

In September, 1939, new courses of study will be issued for Grade XI.

The High School Entrance Examination

The requirements for entrance to high school have been changed to conform with the revised programme. Under the new plan, candidates who write final departmental examinations for entrance to high school will be tested in five papers—Mathematics, English Composition and Grammar, English Literature, Spelling, and Writing. Standing in all other subjects will be determined by reports submitted by the school principals.

This arrangement represents further progress in the direction of accepting pupils' term records in place of final examination marks. It should be borne in mind, however, that a relatively small proportion of Grade VIII pupils write any departmental papers, and that approximately two-thirds of the successful candidates are granted standing on the recommendation of their school principals.

Teacher Training

The registration at the Normal Schools decreased from 1,087 in 1937-38 to 990 in the 1938-39 session. There is reason to believe that the low point in the enrolment of teachers-in-training has now been reached, and that the operation of the law of supply and demand will correct a situation which, if unadjusted, would result in a scarcity of qualified teachers.

The importance of preparing teachers for service in rural schools has prompted a change in the provisions made for practice teaching. All students of the 1938-39 Normal School class spent two weeks of continuous observation and teaching in rural schools located near their homes. One of these weeks followed the Christmas vacation and the other the Easter holidays. The value of this additional opportunity for practice in rural schools was so marked that the plan will continue in operation during the coming year.

The percentage of French-speaking teachers holding First or Second Class teaching certificates continues to increase. In November, 1938, the percentage of teachers so qualified was 86.24, compared with 79.46 per cent. in 1937, and with 25.11 per cent. in 1929.

A year ago I drew attention in my report to the appointment of a Supervising and Helping Teacher in Carleton County. This experiment was undertaken with a view to freeing a greater portion of the local inspector's time for the larger problems of his district, while, at the same time, providing increased help for inexperienced teachers. The success of the plan led to a similar arrangement being made in the County of Lanark during 1938. In each of these cases the appointment was accompanied by an increase in the size of the inspectoral area.

Legislative Grants

The final report of the Committee appointed in May, 1935, to enquire into the cost of education in the Province of Ontario appeared as an appendix to my report for the year 1937. One conclusion reached by the Committee was that the burden of taxation on real estate should be reduced, and that the appropriation made by the Legislature of the Province for educational purposes should be increased substantially. It is gratifying to be able to report that provincial grants to education have continued to increase during the past three years. The increase in regular elementary school grants in 1936 over 1935 was 8 per cent.; in 1937 over 1936, 12 per cent.; and in 1938 over 1937, 22 per cent. Larger legislative grants not only distribute the burden of taxation between real estate and other forms of property more equally, but they tend to equalize in some degree the cost of education in areas of varying assessment.

Larger Units of Administration

The Public Schools Act for some years has permitted the municipal council of a township to pass a by-law placing any portion of the township or any number of school sections under one board of five trustees. The unit so formed becomes a township school area. Fourteen of these areas were in operation at the beginning of 1938, but before the end of the year this number had doubled, and twenty-eight township school areas were functioning in the province. Included in these units were 145 former individual school sections.

The acceleration towards the larger unit of administration for rural schools was due, in part, to a growing recognition of the advantages of such units in equalizing educational costs and opportunities, and, in part, to the announcement that an additional legislative grant of $100 would be paid to each school section becoming a part of a larger area. This specific encouragement aroused action on the part of a number of trustees, ratepayers, and municipal councils, with the result that by-laws creating fourteen areas were passed and approved during the first six months of the year.

The larger units now in operation vary both in size and situation, but they are alike in that they were created by voluntary action on the part of the local municipalities. It augurs well for the future of the areas that they have been organized in communities where public opinion is favourable to the change. Their progress will be closely watched by all who are interested in education throughout the province.

Text-Books

Two new readers entitled *Golden Windows* and *Gateways to Bookland* were authorized during the year for use in Grades III and IV. These readers replaced the former *Second Book* which had been in use for sixteen years. The new books have been welcomed in the classrooms, where their generous content of suitably graded poems and stories should encourage the habit of wide and varied reading.

Arithmetic text-books for each of Grades V and VI were also introduced in the elementary schools in September, 1938. Separate books in arithmetic are now authorized for each of Grades III, IV, V, and VI. Reports indicate that these texts are proving helpful, not only in supplying a wide range of practice material, but in suggesting an effective approach to the subject.

Revised courses in Grades IX and X of secondary schools made it necessary to authorize new text-books in English, Science, Mathematics, and German.

Handbook on Health

Over a period of eight years an experiment in the teaching of health has been carried out by the Department of Health in conjunction with the Department of Education. The initial phase of the experiment took the form of a demonstration in the teaching of health in a selected group of the elementary schools, both rural and urban. Following the demonstration, a Joint Committee was appointed from the staffs of both departments to make recommendations for the adoption of a scientific programme of health education.

Two outstanding activities of the Committee have been the organization of a summer course in the teaching of health, and the preparation of a handbook for the guidance of teachers. The handbook was issued in June, 1938, under the title: *Health. A Handbook of Suggestions for Teachers in Public and Separate Schools.* A copy was supplied through the local inspectors to each classroom in the elementary schools, where its influence on the teaching of Health has been definitely beneficial. The personnel of the Joint Committee was as follows:

Department of Health: John T. Phair, M.B., D.P.H., Chief Medical Officer of Health; Mary Power, B.A., Director of Health Education; Laura W. Vrooman, Reg.N., Division of Child Hygiene.

Department of Education: V. K. Greer, M.A., Chief Inspector of Public and Separate Schools; Duncan Walker, B.A., Director of Professional Training; R. H. Roberts, M.A., Inspector of Public Schools; G. R. Smith, B.A., B.Paed., Normal School, Ottawa. In 1936, on the retirement of Mr. Walker from the position of Director of Professional Training, his successor, Dr. W. J. Karr, became a member of the Joint Committee.

In Memoriam

My report for the year 1938 would be incomplete without reference to the loss sustained by the Department of Education in the death of two of its most valued officials—Dr. W. J. Karr, Director of Professional Training, and Mr. H. W. Kerfoot, General Editor of Text-books.

An outline of Dr. Karr's distinguished career and a tribute to his exceptional personal qualities appear in the report of his successor in the pages that follow. In each of the important posts which he held, Dr. Karr's duties were discharged with wisdom and decision. His life was rich in accomplishment, and its influence will live on in the work of those whom he guided.

H. W. Kerfoot, B.A., B.Paed., General Editor of Text-books, died in Toronto on April 30, 1938. Born at Minesing, Mr. Kerfoot received his early education in a rural school in Simcoe County, and in Barrie Collegiate and Model School. He subsequently attended Ottawa Normal School, Queen's University, and the Hamilton School of Pedagogy. His early teaching experience was gained in the schools of his home county, but after securing his B.A. degree, he served as teacher and principal in Prescott High School and Picton Collegiate Institute. In 1922 Mr. Kerfoot was appointed to the staff of Ottawa Normal School where he taught with marked success until his transfer to the office of General Editor of Text-books in the Department of Education. Mr. Kerfoot found joy in teaching, for his work was pervaded by a keen interest and faith in the students under his care. To his editorial desk he brought sound scholarship, wise judgment, and a wealth of human understanding. He will long be remembered by his associates, not only for his service to education, but for his kindly sense of humour and steadfast strength of character.

Conclusion

Appended to this report will be found detailed information and statistics regarding the various branches of educational work organized in the province.

Respectfully submitted,

L. J. SIMPSON,
Minister of Education.

Toronto, November 22, 1939.

APPENDIX A

REPORT OF THE CHIEF INSPECTOR OF PUBLIC AND SEPARATE SCHOOLS

The Provincial Inspectoral Staff, 1938

I. In Memoriam:

John M. Field, B.A., Ph.D., who had retired from active service as a Public School Inspector on December 31st, 1936, died at his home in Goderich on October 27th, 1938. In this report for 1936 a review of the life and work of Dr. Field was given. For twenty-five years he had served as Public School Inspector in Huron County and early in this experience became known as one of the leading educationists of the province.

James Gill, B.A., B.Paed., who had retired from service as a Public School Inspector in the City of Hamilton on August 31st, 1938, passed away in the Hamilton General Hospital on March 9th, 1939, at the age of seventy-four, after a brief illness. Mr. Gill was born in Smith's Falls on October 7th, 1864. His early public school education was received in Walkerville and Windsor, and his high school training in Windsor, St. Thomas, London, and St. Catharines. In 1889 he graduated from the University of Toronto with honour standing in Mathematics. During his University course, and afterwards during his high school teaching experience, he was known throughout the province as a brilliant mathematician. In 1902 he obtained the Bachelor of Pedagogy degree. For a number of years, in addition to his work as a Mathematics and Physics Master in the Hamilton Collegiate Institute, he was also a member of the lecture staff of the Ontario Normal College. Many present inspectors, Normal School Masters, high school principals and teachers, and Departmental officials remember him as a most efficient teacher, endowed with a keen interest in his students and an unusually sympathetic understanding of their problems. Mr. Gill became a Public School Inspector in Hamilton in 1911. From that time to his retirement he was recognized as one of the outstanding inspectors and educationists in the province. He was held in the highest regard by his teachers, who not only respected him as an inspector but esteemed him as a friend.

Richard Lees, M.A., who had resigned as Public School Inspector of Peterborough East on August 31st, 1930, died at his home in Peterborough on Wednesday, October 19th, 1938. Mr. Lees had been Principal of the Lindsay Model School, and also Science Master at the Brampton Collegiate Institute for seven years, and at the St. Thomas Collegiate Institute for eleven years. In July, 1905, he was appointed Public School Inspector, and in this office served until his retirement. Mr. Lees was always an educational leader, not only within his inspectorate but in the province. He was ever an active participant on the programmes of the Ontario Educational Association, and his influence through his writings and addresses in the cause of the Consolidated School movement was most effective. His schools made marked progress under his leadership.

Albert Odell, B.A., who retired as a Public School Inspector twenty years ago, died suddenly early in the year 1939. The Department of Education wishes to record the splendid services rendered by him as an inspector in earlier years. Mr. Odell received his scholastic education in Orono Public School and in the

Bowmanville High School and St. Catharines and Cobourg Collegiate Institutes. His teaching experience covered rural schools and City of Toronto Public Schools, High School work in Watford, and, as head of the Department of Mathematics, the two Collegiate Institutes in which he had previously been a student. His varied and lengthy experience in all classes of schools fitted him eminently for his duties as Public School Inspector in Northumberland County. He served this area with tact and efficiency from 1895 until 1919, when he retired prematurely owing to a defect in hearing. His warm sympathy and self-denying interest in everything that concerned the welfare of the children and the community at large earned him a lasting place in their memory.

J. C. Stothers, M.A., B.Paed., Public School Inspector in the City of London, died on September 4th, 1938. Mr. Stothers was born in Huron County on May 9th, 1887. He attended the rural schools of his native county and the high schools of Wingham and Goderich. He graduated from Model School, after which he taught in Huron County for a few years. In 1912 he entered the Faculty of Education at Toronto and, upon graduation in 1913, he accepted an appointment to the staff of the Toronto Public Schools. During the war he saw service with the 15th Battalion, C.E.F. Returning from active service in 1919, he rejoined the staff of Ryerson School. He secured the degree of Master of Arts from Queen's University, and the degree of Bachelor of Pedagogy from the University of Toronto. In January, 1924, he became Public School Inspector for Muskoka District and in September, 1925, he went to London as Inspector of Public Schools for that city. Last year he was named Assistant Superintendent of Schools by the London Board of Education. Mr. Stothers was a progressive educationist and has left a lasting influence upon the schools of London where he did such outstanding work. He was lecturer during the last two summers in the Summer School of Education conducted by the Department of Education at the University of Western Ontario, and by his kindly humour and his readiness to be of assistance to the students at all times he endeared himself to all. On several occasions he contributed articles to "The School" Magazine and, at the time of his death, was engaged in the preparation of a book providing helpful suggestions to teachers of Grade VI. One of the most successful features of his work as an inspector was the use he made of the small group conference of teachers. By means of these meetings he brought about an interchange of opinion and practice among his teachers which was of the greatest value in improving the work in the classrooms.

John Wells Marshall, M.A., attended public and high school in his native county of Welland, the former in S.S. No. 7 Willoughby and the latter in Stamford. He graduated from Queen's University in 1898 with honour standing in Classics. His initial experience as a teacher was in the rural schools of Welland County. After graduating from the Hamilton Normal College with a Specialist certificate in Classics, he taught in the Collegiate at Ridgetown and subsequently in the Collegiates at Windsor. He received his appointment as Inspector of Public Schools for Welland County in 1907. In this latter field of work he devoted his splendid abilities to the cause of education for 31 years. In 1924, owing to the growth of school attendance in Welland County, he was assigned an inspectorate which included the City of Niagara Falls and only a portion of the county. Mr. Marshall was a leader among the inspectors. His opinions always commanded respect and his gentlemanly qualities made him a host of friends. His outstanding services were not confined to education. He associated himself with every worthy cause, serving his community both faithfully and well. John Marshall was a "true friend of man."

II. RESIGNATIONS:

Mr. A. L. Campbell, M.A., obtained his elementary education at the Nobleton Public School and later attended the Richmond Hill High School, finishing his secondary school course in Parkdale Collegiate Institute, Toronto. He obtained his professional training in the Newmarket Model School and the Toronto Normal School. He graduated from Queen's University in 1906 with Honours in Mathematics. His teaching experience covered nine years in the rural schools of York County and fifteen years in the high schools at Fergus and Weston, with a brief period in Upper Canada College. In 1909 he became Public School Inspector in York County, a position which he retained until his retirement in September, 1938. Mr. Campbell is recognized by the Department and his colleagues in educational work as a capable teacher, a trusted adviser, and a wise administrator. He earned the grateful appreciation of boards, teachers, and communities whom he served.

Mr. J. M. Denyes, B.A., was born in Ernesttown Township in the County of Lennox. His early education was received in a rural school and in the Napanee High School. He subsequently attended Queen's University, obtaining his B.A. degree in 1895, and his High School Assistant's certificate in 1896. Ten years later he was granted a Specialist certificate in Modern Languages and, simultaneously, a Public School Inspector's certificate. Mr. Denyes' experience as a teacher began in 1892. He taught in the Vennachar and Switzerville Public Schools, the Finch Continuation School, the Newburgh High School as assistant and also as principal, the Whitby Collegiate Institute, and the Oakville High School as principal. He resigned his position as principal in this High School in 1913 to become Public School Inspector for the County of Halton. Mr. Denyes has a pleasing personality, an alert mind, a fund of good humour, a great deal of common sense, and a most conscientious attitude towards duty. All through his experience as a teacher and inspector he was admired and respected by his pupils and teachers. They regarded him as a good friend and a wise counsellor. He is being paid a true and well-merited compliment when it is said of him that few inspectors hold the respect and confidence of their fellow inspectors to the same degree as does Mr. Denyes. He took a very prominent part in securing for the inspectors the benefits of The Public Service Superannuation Act. The Department regrets that physical disability has forced him to resign from active educational work several years before the usual age of retirement.

Mr. John Hartley was born in the Township of Turnberry, Huron County. He attended a rural school, Walkerton High School, Harriston High School, and Owen Sound Collegiate Institute. His professional training was obtained in the Walkerton Model School, the Toronto Normal School, and the Ontario Normal College, Hamilton, from which he graduated in 1906 with a First Class Permanent certificate. Mr. Hartley has had forty-six years of successful service in educational work in the Province of Ontario. He taught for twenty years in his native county in rural and urban schools, for the last five years of which he was Principal of the Clinton Model School. In 1912 he was appointed Principal of the Vankleek Hill Model School for French-speaking teachers, and when that school was closed because of the opening of the University of Ottawa Normal School in 1929, he was appointed Assistant to the Chief Inspector of Public and Separate Schools. In January, 1937, he was appointed to the inspectorate of Huron East. Unfortunately, due to ill health, he was forced to retire in April, 1938. Mr. Hartley was an excellent teacher, giving splendid service in every position which he held, to pupils, to parents, and to the community. His work in the Training School was outstanding. He was very helpful as Assistant to the Chief Inspector, and was most faithful in his work as inspector in Huron East.

Mr. Rosario Masse, B.A., Inspector of Separate Schools for R.C.S.S. Division III, with residence at Cochrane, resigned at August 31st, 1938. Mr. Masse began his duties as inspector on September 1st, 1931, coming to the work from the Winchester High School. He spent three years in R.C.S.S. Division V, with residence at North Bay, and the remaining period in the Cochrane area. In leaving the work of inspection his fellow inspectors and the Departmental officials wish him much success in his new field of activity.

Mr. M. R. Reid, M.A., obtained his early education in the rural schools of Lennox County and his secondary school training in Napanee Collegiate Institute, from which he graduated in 1893. He graduated from Queen's University in 1897 and from the Normal College in Hamilton in 1898, with Specialist standing in Science. He was Assistant Master in the Dunnville High School and in the Napanee Collegiate Institute, and Principal of the Sydenham High School until 1910. Since that time he served as Public School Inspector in Frontenac North and Addington until 1934, and thereafter in the County of Lennox until his retirement in August, 1938. His long association with education in this area, first as student, then as teacher, and finally as inspector, has left a noteworthy influence upon the life of this section of the province. The Department of Education recognizes in him one who has served faithfully and efficiently in the cause of education in all his relations with the Department and, as their representative, with teachers, boards of trustees, and the public.

Mr. J. B. Robinson, B.A., B.Paed., received his early education in a rural school in his native Township of Caistor in Lincoln County. For his secondary school education he attended Smithville High School and the Hamilton Collegiate Institute. Mr. Robinson received his Bachelor of Arts degree from Queen's University in 1902, his Bachelor of Pedagogy degree from the University of Toronto in 1906, and his Specialist standing in English and History from Queen's University in 1911. In the same year he was granted a Public School Inspector's certificate. He first taught in Binbrook and Canboro Townships. Subsequently he was principal of the following schools,—Ancaster Public School; Darling Street School, Brantford; West Avenue School, Hamilton; and the Hamilton Model School. He also taught in the Hamilton Collegiate Institute from January, 1911, to December, 1917, when he was appointed Public School Inspector for Wentworth County. Mr. Robinson possesses those qualities of mind and heart which make outstanding teachers and inspectors. He was just, faithful to duty, inspirational, sympathetic, and loyal to his teachers. He was one of the first inspectors of rural areas to urge his boards to introduce Manual Training and Household Science. He organized teachers' reading and discussion groups which were most helpful to his teachers and highly appreciated by them.

Mr. J. H. Sexton, M.A., is a native of Elgin in Leeds County. He obtained his elementary and secondary school education at the Elgin Public School, the Athens High School, and the Brockville Collegiate Institute. He graduated from Queen's University in 1898 and received his Master of Arts degree in 1902. Mr. Sexton is a specialist in Science. He obtained his experience as a teacher in the Elgin Public School, the Gananoque High School, the Kingston Collegiate Institute, and, as a principal, in the Kemptville High School, the Athens High School, and the Strathroy Collegiate Institute. He was appointed Public School Inspector in February, 1923. Mr. Sexton has had a splendid career as teacher and inspector. In addition to his qualifications as a specialist in Science, he has a wide knowledge and fine appreciation of literature. He has a keen sense of humour and a fine sense of justice which were used to good advantage in securing for him that splendid co-operation from teachers and boards of trustees which contributed to his success.

III. APPOINTMENTS:

The following appointments were made to the provincial staff of inspectors during the year 1938:—

1. Hamilton: Mr. Robert A. Riddell, B.A., B.Paed., Principal of Bennetto Public School, Hamilton, duties beginning January 1st, 1938.
2. Hamilton: Mr. Vernon N. Ames, B.A., B.Paed., Principal of Adelaide Hoodless Public School, Hamilton, duties beginning January 1st, 1938.
3. Sarnia: Mr. T. C. White, B.A., B.Paed., duties beginning September 1st, 1938. Mr. Henry Conn, B.A., is remaining on duty also as a Public School Inspector for Sarnia to the end of the school year, June 30th, 1939.
4. Frontenac North: Mr. Thomas J. Thompson, B.A., B.Paed., Principal of Governor Simcoe Public School, London, to succeed Mr. T. R. McEwen, B.A., B.Paed., Sharbot Lake, duties beginning September 1st, 1938.
5. Glengarry: Mr. R. O. Staples, B.A., B.Paed., of the Danforth Technical and Vocational School staff, Toronto, to succeed Mr. Z. S. Phimister, B.A., B.Paed., Alexandria, duties beginning September 1st, 1938.
6. Hastings North: Mr. J. D. Deyell, B.A., B.Paed., Principal of Swastika Public School, duties beginning September 1st, 1938, with residence at Bancroft. A re-division of inspectoral areas was made in 1938 so as to place an inspector again at Bancroft, as had been the case in earlier years.
7. Huron East: Mr. James H. Kinkead, B.A., B.Paed., of the R.H. McGregor Public School, East York Township, to succeed Mr. John Hartley, Clinton, duties beginning September 1st, 1938.
8. Prescott and Russell: Mr. J. Campbell Webster, B.A., B.Paed., Principal of Ryerson Public School, London, to succeed Mr. C. B. Routley, M.A., Russell, duties beginning September 1st, 1938.
9. Simcoe South: Mr. Charles A. Lapp, B.A., B.Paed., Principal of Devonshire Public School, Ottawa, to succeed Mr. W. H. Carlton, B.A., B.Paed., Bradford, duties beginning September 1st, 1938.
10. Simcoe West: Mr. J. Kirk Evans, B.A., Principal of Petrolia Public School, to succeed Mr. W. F. Smith, B.A., B.Paed., Collingwood, duties beginning September 1st, 1938.
11. York (1): Mr. W. H. T. Mooney, B.A., B.Paed., of the Toronto Normal School staff, to succeed Mr. R. H. Roberts, M.A., Toronto, duties beginning September 1st, 1938.
12. District Div. VI: Mr. William MacMillan, B.A., B.Paed., Principal of the Lindsay Collegiate Institute, to succeed Mr. L. L. Skuce, B.A., B.Paed., Sudbury, duties beginning September 1st, 1938.

13. District Div. X: Mr. Herman H. Langford, B.A., Principal of Victoria Public School, Kingston, to succeed Mr. F. S. Rivers, B.A., B.Paed., Kirkland Lake, duties beginning September 1st, 1938.
14. R.C.S.S. Div. III: Mr. Remi Millette, B.A., B.Paed., of the Sturgeon Falls High School staff, to succeed Mr. Rosario Masse, B.A., Cochrane, duties beginning September 1st, 1938.
15. Helping Teacher: Mrs. Helen B. Paul, B.A., Principal of the Mallorytown Consolidated Public and Continuation School, was appointed a Supervising and Helping Teacher, duties beginning September 1st, 1938, to work with Mr. R. A. A. McConnell, B.A., Perth, in Lanark County.

IV. TRANSFERS:

In all cases the transfers took place at September 1st, 1938.

	Inspector	*Former Inspectorate*	*New Inspectorate*
1.	L. L. Skuce, B.A., B.Paed.	District Division VI	Halton
2.	W. H. Carlton, B.A., B.Paed.	Simcoe South	Leeds and Grenville (3)
3.	T. R. McEwen, B.A., B.Paed.	Frontenac North	Lennox and Hastings S.
4.	Gordon Young, B.A.	Leeds and Grenville (3)	Middlesex West
5.	W. F. Smith, B.A., B.Paed.	Simcoe West	Peel
6.	C. B. Routley, M.A.	Prescott and Russell	Wentworth
7.	R. H. Roberts, M.A.	York (1)	Peterborough Normal School
8.	M. R. Fydell, B.A.	Peel	York (2)
9.	W. W. A. Trench, B.A.	York (5)	York (4)
10.	J. E. Wilkinson, B.A., B.Paed.	York (2)	York (5)
11.	A. Gascon, B.A.	R.C.S.S. Div. VII	R.C.S.S. Div. XIX
12.	L. Laplante, M.A.	R.C.S.S. Div. XIX	R.C.S.S. Div. VII

V. LEAVE OF ABSENCE:

Mr. Z. S. Phimister, B.A., B.Paed., Public School Inspector for the County of Glengarry, was granted leave of absence for one year beginning September 1st, 1938, to study abroad and to observe in the schools of Great Britain and the Continent of Europe.

Mr. F. S. Rivers, B.A., B.Paed., was granted leave of absence from the North Bay Normal School in September, 1937, to serve as Public School Inspector in District Division X, with residence at Kirkland Lake. He filled this position temporarily with marked ability and satisfaction to the local communities and to the Department of Education.

VI. TRANSFERS TO THE DEPARTMENT OF EDUCATION:

On May 9th, 1938, immediately after the death of Mr. H. W. Kerfoot, B.A., B.Paed., General Editor of Text Books, Mr. H. E. Elborn, M.A., B.Paed., Public School Inspector for Waterloo No. 1, was asked by the Minister of Education to take charge, temporarily, of the duties as General Editor of Text Books. Mr. Elborn continued to discharge the more urgent duties of his inspectorate to December 31st, 1938, and also the duties as Editor in the Department. On

January 1st, 1939, he was appointed General Editor of Text Books, and Mr. G. H. Dobrindt, B.A., Principal of Empire Public School, Welland, became Public School Inspector for Waterloo No. 1.

On January 1st, 1939, Dr. C. E. Stothers, B.A., Public School Inspector for Prince Edward County, was appointed to the inspectoral staff of the Department of Education. Dr. Stothers will continue to give one-half of his time to the more urgent duties of the inspectorate of Prince Edward County until August 31st, 1939.

On June 1st, 1937, Mr. Robert Gauthier, B.A., Ph.L., Separate School Inspector for R.C.S.S. Division VII, became Director of French Instruction in the Department of Education. Mr. Gauthier had first come into the service of the Department on September 1st, 1926, when he was appointed as an assistant on the staff of the Vankleek Hill Teacher-Training School. On October 1st, 1927, Mr. Gauthier was appointed as a Separate School Inspector, taking up duties in the Cochrane area. Later he was transferred to the Windsor area, where he remained until his appointment as Director of French Instruction. Mr. Gauthier has also given valuable services in Summer School work at Sturgeon Falls, Vankleek Hill, Sandwich, and Windsor.

Lighting of Schools

During the year 1938, the Hydro-Electric Power Commission of Ontario began a free service to the schools of Ontario with respect to the lighting of school buildings. Through the department of the Supervising Lighting Engineer any elementary or secondary school board in the province may be supplied with a complete report on the lighting system in use, and recommendations in detail for the improvement of the lighting. Blue print plans are furnished with the report to the board. A large number of rural and urban elementary school boards have already taken advantage of this free service, with the result that both the natural and artificial lighting of the classrooms have been greatly improved. Where new school buildings are being erected the boards are now consulting the Hydro-Electric authorities, and in nearly all cases are following the plans and recommendations offered.

A committee composed of lighting engineers from the staff of the Hydro-Electric Power Commission and officials of the Department of Education has been revising the regulations of the Department of Education with respect to school lighting, and at an early date it is likely that more modern regulations will replace the former ones.

Larger Units of Administration

Sections 15 and 16 of The Public Schools Act permit any township municipal council to pass a by-law placing any portion of the township in a Township School Area for purposes of administration of the public schools. The Act provides for a board of five trustees to replace the former school-section boards of three trustees. As is shown by the list below, the number of larger units in the province is still small, but a rapid acceleration in the organization of these units took place in 1938. This was due very largely to the adoption by the Department of Education of a more vigorous policy towards this problem. As a result, the local inspectors are constantly informing the ratepayers in rural areas regarding the advantages of larger units and the steps to be taken towards the organization of these units. In all cases the action is voluntary on the part of the municipal council, and official action is taken only when there is a body of opinion in the area favourable to the change.

There is hope that each year the number of larger areas may be increased in order that the people of all parts of rural Ontario may have ample evidence of the disadvantage of the school section as compared with the advantages of the larger unit. To encourage the organization of larger units, and as a means of assisting the equalization of school rates after organization, the Department now offers an additional grant of $100.00 per school section where a larger area is formed. This grant is paid to the individual school sections for the first year and afterwards to the Township School Area board of trustees.

The following is the list of larger units of administration in the Province of Ontario:—

Townships	Number of School Sections	County or District	Inspector	Date of Formation
1. Morrison (Township Board).....	5	Muskoka	H. R. Scovell	1920
2. Blake..........................	4	Thunder Bay	L. J. Williams	1925
3. Conmee.......................	3	Thunder Bay	L. J. Williams	1925
4. Neebing......................	4	Thunder Bay	L. J. Williams	1925
5. York North..................	3	York	W. W. A. Trench	1928
6. York.........................	12	York	A. A. Jordan and W. A. Fydell	1932
7. Teck and Lebel (Kirkland Lake)..	2	Temiskaming	H. E. Elborn	1932
8. Amherst Island................	5	Lennox	S. A. Truscott	1934
9. Muskoka......................	3	Muskoka	G. S. Johnson	1935
10. York East.....................	5	York	W. W. A. Trench	1936
11. Macaulay......................	6	Muskoka	G. S. Johnson	1936
12. Medora and Wood.............	13	Muskoka	G. S. Johnson	1937
13. Bosanquet.....................	2	Lambton	H. B. Galpin	May 3, 1937
14. Dysart Municipality...........	12	Haliburton	A. F. Brown	June 7, 1937
15. Waters........................	2	Sudbury	O. M. MacKillop	May 28, 1938
16. Kaladar, Anglesea, and Effingham	7	Addington	T. R. McEwen	June 4, 1938
17. Griffith and Matawatchan.......	2	Renfrew	C. W. Lees	June 4, 1938
18. Denbigh, Abinger, and Ashby ...	8	Addington	T. R. McEwen	June 6, 1938
19. Brunel........................	7	Muskoka	A. F. Brown	June 21, 1938
20. Cardiff........................	6	Haliburton	A. F. Brown	June 23, 1938
21. Glamorgan....................	3	Haliburton	A. F. Brown	June 24, 1938
22. Faraday......................	6	Hastings	C. F. Cannon	June 25, 1938
23. Oakley........................	3	Muskoka	G. S. Johnson	June 25, 1938
24. Stanhope.....................	4	Haliburton	A. F. Brown	June 27, 1938
25. Onondaga.....................	5	Brant	W. Joyce	June 29, 1938
26. Ryde..........................	4	Muskoka	G. S. Johnson	June 29, 1938
27. Otonabee.....................	5	Peterborough	L. W. Copp	June 30, 1938
28. O'Connor.....................	4	Thunder Bay	L. J. Williams	July 2, 1938
Total...........	145			

Correspondence Courses

This branch of the Department of Education continued to render splendid service to the children of the province who, for various reasons, are unable to attend the regular elementary schools. The lessons offered cover the complete courses of study authorized for the public and separate schools of the province up to the end of Grade X. The number of children enrolled for the year 1938 was approximately 2,800, a considerable increase over the number enrolled for the preceding year.

The School on Wheels

The Railway School Car is continuing to pursue its helpful way among the isolated communities scattered along the railways of Northern Ontario. The depression has depleted, to some extent, the groups depending for their occupation on the timber industry, but the flexible character of the school car service enables it to accommodate itself readily to any such changes. The splendid co-ordination of railway schedules and school car movements by night and day has allowed more actual teaching time than in the regular schools.

A new car has been added to the service to operate on the Temagami division of the Temiskaming and Northern Ontario Railway. This territory is now fully organized with six car stops serving 45 pupils located along sixty-five miles of railway. Evening schools for adult education are conducted at two points. The advent of the car was hailed with pleasure by parents and children. Many of the latter had previously, even up to 'teen age, no opportunity for education. This makes a total of seven cars which are caring for the school needs of more than one thousand miles of railway.

The efficiency of the school car methods is revealed by the speed with which non-English pupils acquire speaking and reading ability. Self-learning, carefully co-ordinated with proper methods of teaching, imparts the power in a matter of a few weeks. A recent case in point is that of an English-speaking child of five who, after eighteen actual teaching days, has read five story books comprising over three hundred pages, well up to the standard of third to fifth grade.

The Railway School Car Auxiliary, comprising a group of Toronto ladies, has devoted itself to the service of helping needy homes and children in the school car areas. Their timely help brings cheer and necessary aid which has been greatly appreciated where help through organized channels is impossible.

Interchange of Teachers

In the matter of interchange of teachers, only those of good personality, good scholarship and teaching ability, not over forty-five years of age, and who are known to be willing and able to adjust themselves to new conditions are recommended for exchange. The inspector who is familiar with the work of the teacher, whether in a secondary school or elementary school, is required to declare that the teacher is a worthy representative of the teaching profession in Ontario before consideration will be given to the teacher's application for exchange. It is expected that equal caution is observed by the authorities over those teachers who exchange with teachers in Ontario.

Two very important purposes are served through the interchange of teachers. They have proved to be promoters of goodwill among the Canadian Provinces and other Dominions of the British Empire. They return to their duties with new enthusiasm, broader vision, and additional resourcefulness. They learn, when on exchange, the methods used by others to accomplish the same ideal, good citizenship in the Empire and the world.

A summary of the exchanges arranged for the current school year (1938-39) is given below:—

17 Ontario Public School teachers on exchange in England.
2 Ontario Public School teachers on exchange in Wales.
6 Ontario Public School teachers on exchange in Scotland.
2 Ontario Public School teachers on exchange in New Zealand.

1 Ontario Separate School teacher on exchange in England.
1 Ontario Separate School teacher on exchange in Scotland.

—

29 Ontario Elementary School teachers on exchange overseas.

1 Ontario Public School teacher on exchange in Manitoba.
1 Ontario Public School teacher on exchange in Saskatchewan.
2 Ontario Public School teachers on exchange in Alberta.
3 Ontario Public School teachers on exchange in British Columbia.

—

7 Ontario Public School teachers on exchange in other provinces.

1 Ontario Secondary School teacher on exchange in England.
2 Ontario Secondary School teachers on exchange in Scotland.
1 Ontario Secondary School teacher on exchange in British South Africa.

—

4 Ontario Secondary School teachers on exchange overseas.

40 Ontario teachers, in all, on exchange for the school year 1938-39.

There were 44 Ontario teachers on exchange during each of the two preceding school years.

The Closing of Small Schools

During the year 1938, the determined policy of the Department to close small schools with enrolment below eight, where the children might be admitted conveniently to neighbouring schools, was pursued effectively. In 1936, 26 schools were closed; in 1937 the number closed was 28, while in 1938 some 37 schools were closed. Five schools were reopened in 1938 owing to increased numbers of pupils of school age resident in the school sections. A total of 96 schools remain closed.

The primary reason for closing these schools is that the pupils benefit by attendance in classes where the numbers are larger and by association in their play-life with a greater number of their own age-group. The secondary reason for closing the schools is that the local ratepayers effect a saving of from $300 to $600 in school rates for each school closed. The Department of Education is also enabled to distribute the amount saved in grants to more needy schools. It is estimated that there are still approximately one hundred schools of low enrolment which might be closed to the advantage of the pupils and in the economic interests of the local areas concerned.

Conclusion

During the year 1938 the chief interest of the elementary schools centred around the two new programmes of study, the one for Grades I to VI introduced on September 1st, 1937, and the other for Grades VII and VIII introduced on September 1st, 1938. Parents, trustees, teachers, and inspectors received the new courses with enthusiasm, and all co-operated splendidly in putting the changes into successful operation. In this respect the Ontario Home and School Associations were particularly helpful, due to their sponsorship of the courses in their meetings and through their activities.

More and more the inspector finds his time occupied with the advancement of new policies in education, and he finds it increasingly difficult to carry out the routine visiting of schools and the administrative duties of his office. It is becoming more evident each year that the inspector must have more clerical service and that one complete official visit per year to each school in his inspectorate, with additional visits only where most required, should prove sufficient. The inspector has not been able always in the past to give the leadership in educational work which might be expected from his office. On the other hand, the routine work of the inspector has not always produced the results desired. An effort is being made, therefore, to free the inspector from those details which may be carried out by others and to give him, as a result, more time to meet trustees, teachers, and leading citizens so as to create a wider understanding of school problems and new policies and thus hasten changes greatly needed.

The Public and Separate School Inspectors of the province have rendered throughout the year faithful and efficient service. It is realized that while new programmes of study may be issued and new policies approved, the effectiveness of the work of the schools depends almost wholly upon the support and untiring efforts of the inspectors and the co-operation brought about between them and their teaching staffs.

I am indebted also to my colleagues in the Department of Education for their hearty co-operation throughout the year, and for their contributions to this report. To Dr. J. T. Phair, Chief Medical Officer of Health, Department of Health, to Mr. R. S. Duncan, B.S.A., Director of Agricultural Representatives, to Mr. George White, Chief Architect, Department of Public Works, and to the Supervisors of the Department of Municipal Affairs, thanks are also extended for willing co-operation and much help throughout the year.

V. K. GREER,
Chief Inspector.

Toronto, March 31, 1939.

APPENDIX B

REPORT OF THE CHIEF INSPECTOR OF SECONDARY SCHOOLS

I have the honour to submit herewith the reports of the High and Continuation School Inspectors and the Director of Vocational Education, for the school year 1937-38.

G. F. ROGERS,
Chief Inspector of Secondary Schools.

Toronto, August 8, 1939.

1. Report of the Inspectors of High and Continuation Schools

At the close of the school year 1937-1938 there were in the province 70 Collegiate Institutes, 157 High Schools, and 206 Continuation Schools. There were 69 Grade A Continuation Schools, employing the time of three or more teachers, and 129 Grade B Continuation Schools. In 20 of the latter, half the time of one teacher was given to public school work. A new High School was established at Copper Cliff, and new buildings were erected for the High School at Morewood and the Continuation Schools at Lyndhurst and Florence. Additional accommodation was also provided for the Continuation School at Smooth Rock Falls. A Grade B Continuation School was established at Paincourt. In a considerable number of schools, accommodation and equipment were provided for the teaching of General Shop Work and Home Economics. In composite schools, where a technical department already existed, instruction in these courses was made available to all first-year pupils. In some larger centres arrangements were made to have first-year high school pupils receive such instruction in the local vocational school. The number of teachers employed in all the Collegiate Institutes, High Schools, and Continuation Schools of the province was 3,085, an increase of 155 campared with the number employed at the close of the preceding school year. The total number of pupils enrolled was 77,951, an increase of 1928.

Changes in the Staff of Inspectors

In July, 1938, Mr. J. P. Hoag, B.A., retired from the staff of secondary school inspectors after a long and useful career in connection with secondary school education in Ontario. Before his appointment as inspector of continuation schools, he served as master in the London Normal School and as public school inspector in Brantford. For many years he made a notable contribution to the establishment and progress of the continuation schools and since 1935 the high schools and collegiate institutes also had the benefit of his ability and experience as inspector.

Mr. G. L. Gray, B.A., formerly Principal of the St. Thomas Collegiate Institute, was appointed an inspector of high and continuation schools and assumed his duties on September 1, 1938. Mr. Gray has had a very successful career as a teacher and principal. He brings to his work as inspector valuable qualifications in experience and scholarship.

Inspection

Since the first-year courses of the revised secondary school curriculum went into effect in September, 1937, the Inspectors felt that it would be helpful to make brief preliminary visits to the schools to discuss any problems of organization or procedure that might be met. These visits were made in the first two or three weeks of the fall term and proved to be helpful to the principals and teachers.

During the school year each school received one regular visit of inspection. In addition to conferences with individual teachers, and especially with those who were beginning the work of teaching, the Inspectors endeavoured during their visits to meet the teachers in groups to discuss the progress of the pupils and aims and methods in the teaching of the various subjects. They were also able in many schools to meet the whole staff at the close of the inspection. In most cases the Board or representatives of the Board availed themselves of the opportunity for a conference with the Inspector about matters relating to the work of the school. The Inspectors feel that these conferences with Boards are a very useful feature of the visit of inspection.

In visiting the classes in the various schools, the Inspectors have continued to emphasize the importance of clear and well-formed oral answers by the pupils, neatness and accuracy in their written exercises, good posture, and effective participation by the pupils in every lesson. In general, added attention is being given to these matters by the teachers and improvement has resulted. In the teaching of the new first-year courses it has been necessary for the teachers to revise somewhat their methods and aims. This has been especially so in such subjects as French, English Composition and Grammar, and Art. On the whole, the teachers have displayed a very commendable degree of enterprise and resourcefulness in their presentation of the work in the revised courses. It is encouraging to observe the efforts being made by teachers in their lessons in the various grades of the schools to promote in the pupils those habits of clear thinking and self-reliance which will contribute to their future usefulness as citizens.

In certain schools the opportunity of special training in speech habits is provided. There is a growing interest in dramatics in the schools. In the larger schools especially, there is an increase in the number of extra-curricular activities. An effort is being made by principals to administer these activities in a manner that will contribute to the general progress and development of the pupils. Special mention should be made of the marked growth in the number of classes in which instruction in Vocal Music is provided as a part of the regular programme of studies. This instruction constitutes a valuable addition to the cultural opportunities offered by the schools.

In the conferences with Boards, the Inspectors met with much active interest in the courses in General Shop Work and Home Economics now provided for in the secondary school curriculum. They gave information concerning the nature and organization of these courses, the qualifications of the teachers required, and the grants payable to Boards in order to assist them to provide the necessary accommodation and equipment. In some instances, at the request of the Board, an Inspector attended a meeting of the ratepayers held for the discussion of these courses and gave information relating to their establishment. There appeared to be general recognition of the advantages of including this work in the programme of studies and a desire to do so as soon as warranted by local financial conditions.

It may be noted that in a considerable number of the schools, and more often in those with a large enrolment, the classes were too large to permit the best results from the teaching. In a number of cases it was necessary to lay stress upon the urgency of the problem of additional accommodation and staff.

Upon concluding the regular visits of inspection the Inspectors were able to make brief return visits to most of the schools.

The teachers and principals in the secondary schools of the province are in general to be congratulated upon the earnestness and efficiency with which they are meeting their responsible duties. There is, we believe, a genuine appreciation on the part of both teachers and Boards of the importance of providing for the boys and girls of the province a useful and thorough secondary school education which will assist them to become happy and useful citizens.

R. W. ANGLIN,
A. J. HUSBAND,
W. A. JENNINGS,
A. G. HOOPER,
S. D. RENDALL,
R. H. WALLACE,
G. L. GRAY.

Toronto, June 17, 1939.

2. Report of the Director of Vocational Education, 1937-38

As predicted in last year's report, the time-tables of the vocational schools have been slightly modified to meet the requirements of the first year general courses. Social Studies, Business Practice and Writing, and Music or Art are now obligatory subjects of study in Grade IX. As a result, the time allotted to the teaching of the practical subjects in Grade IX Vocational classes has been reduced from 40-50 per cent. to 23⅓ per cent., or, if French is not a subject of study, to 33⅓ per cent. The character of the instruction in the practical subjects of the vocational curriculum has not changed. The students in vocational schools and departments continue to be taught by teachers of special trade subjects, in contrast to the method followed in a General Shop, under High School Regulations, where one teacher gives instruction in several industrial subjects.

According to the reports for 1937-38, there were sixty-one schools or departments operating under Vocational Regulations. The number of pupils enrolled increased from 34,766 in 1936-37 to 36,282 in 1937-38, and the number of teachers increased from 1,447 to 1,531 in the same period. In forty-six centres evening classes provided instruction for 31,880 adult students and employed a staff of 981 teachers. This is in contrast with the record of the previous year, when only thirty-two centres operated evening classes with a total enrolment of 25,750 students and a staff of 808 teachers.

Comparative statistics for vocational schools and departments are as follows:

	1922-23	1936-37	1937-38
Number of Schools—Day	16	60	61
" " —Evening	51	32	46
Number of Pupils—Day	9,402	34,766	36,282
" " —Evening	35,511	25,750	31,880
Number of Teachers—Day	337	1,447	1,531
" " —Evening	1,097	808	981
Government Grants	$638,217	$959,611	$1,248,334
Municipal Expenditure (Net)	$1,233,397	$4,334,667	$4,551,798

Day Schools

A demand for the vocational training of youth is clearly evident, and the experience of the vocational day schools during the past year indicates that this type of school is filling a need of the times. The prevalence of unemployment has brought the question of vocational instruction to the fore. The business and industrial world today requires from beginners some acquaintance at least with crafts and industries, in addition to grounding in the usual academic subjects. The advantage enjoyed by vocational students in obtaining employment has brought home to teachers, social workers, and the general public the value of practical training.

The general introduction of Shop Work and Home Economics in the first year of the secondary schools will probably result in more pupils enrolling in the vocational courses in higher grades. Grade IX in all secondary schools has become an exploratory or vocation-finding year.

Night Schools

Evening classes for adults reached their greatest expansion in 1930-31 when 47,000 students were enrolled. The classes declined during the industrial depression until the enrolment in 1933-34 was reduced to 22,000. An upward trend has been apparent since that year. During 1937-38, the enrolment increased to 32,000. The classes provide supplementary instruction for apprentices, journeymen, foremen, salesmen, and others who are engaged in industrial or commercial pursuits during the day. While regular courses are outlined for evening classes, each student is permitted to select the subjects that will best help him to make progress in his chosen trade or profession.

General Shop and Home Economics

General Shop and Home Economics are the "Industrial Arts" introduced into secondary schools other than those operating under the Vocational Education Act. Because of the vocational character of these subjects, their organization and inspection have been entrusted to the Vocational Branch. The new regulations regarding Shop Work apply to any Shop in which provision is made for a modified course of practical instruction in Mechanical Drawing, Woodworking, Sheet Metal Work, Electrical Installation, Motor Mechanics, Machine Shop Practice, or any other subject approved by the Minister for pupils in secondary schools. The course for girls aims to develop sound standards of living, and an appreciation of the functions of family and community life. The course includes sections on Personal Appearance and Deportment; Foods, Shelter, and Clothing; Occupations; Community Life; Home Responsibilities, and, in general, Family Relationships.

Widespread interest has been awakened in these new courses. Approximately one hundred boards either have already introduced such practical instruction or have taken steps to provide it in the near future. The regulations governing the organization of these courses will require re-drafting in the light of the past year's experience. If schools are to be properly graded, it is desirable that an additional inspector be appointed at the earliest possible time.

New Vocational Buildings

Cornwall. In the autumn of 1938, the new vocational addition to the Cornwall Collegiate Institute was opened. Filling a long-felt want, the addition provides facilities for technical education in a growing industrial centre. Not only will these new facilities prove valuable to the boys and girls, but they will open up new opportunities for self-improvement to adult citizens who are now employed.

Ottawa. In the City of Ottawa the remarkable project of substituting a new technical school for the old, without materially interfering with the instruction of the pupils, has been carried out so successfully that the task will probably be completed by September, 1939. By a great effort on the part of the principal and the staff, classes have been maintained with considerable efficiency throughout the trying period of building operations.

Toronto. An extension of the Danforth Technical School is under consideration by the Toronto Board. For some time past, this school has been overcrowded. The library, the girls' gymnasium, and cafeterias have been used as classrooms, in addition to three portable rooms. A recommendation has been made that the usual grants be paid in aid of this new extension.

No decision has yet been reached with regard to the Aircraft Annex for the Central Technical School, although the Department of Education has promised to contribute a building grant in the event of this accommodation being provided.

Inspection

In their annual inspection tours, inspectors attempt to regulate as far as possible the ratio of pupils to teachers, the division of duties among the teachers, and the provision made for teaching the authorized courses.

In many cases, classes are overcrowded because of the limited accommodation available. With the gradual improvement of financial conditions it is hoped that this problem will eventually disappear. It has been suggested to some boards that the Heads of Departments should be authorized to supervise more thoroughly the instruction offered in their particular departments.

Encouragement has also been given to the following features of organization:

1. The use of special rooms for designated subjects;
2. The development of classroom and laboratory libraries;
3. The preparation, and distribution to pupils, of lesson-aid sheets, with the object of improving the character of the instruction.

Some of the teachers continue to maintain a high standard of teaching through the resourceful application of sound methods in preparing and presenting their lessons; others, it has been found, could improve by a study of such methods. At the time of inspection, discussions concerning different phases of the work are held with the teachers, individually, or in groups, in an effort to assist them, and to dissipate the idea that the sole object of inspection is criticism.

Conclusion

Principals and staffs generally are to be commended for their effective co-operation. The schools, on the whole, are staffed with qualified and efficient teachers, whose ability is reflected in the gratifying success of the student body not only while at school but also after leaving school.

F. S. Rutherford,
Director of Vocational Education.

Toronto, March 15, 1939.

APPENDIX C

REPORT OF THE DIRECTOR OF PROFESSIONAL TRAINING

Normal School Registration

Normal School	1938-39			1937-38		
	Men	Women	Total	Men	Women	Total
Hamilton	15	82	97	20	110	130
London	17	106	123	21	119	140
North Bay	11	63	74	8	57	65
Ottawa	26	94	120	23	105	128
University of Ottawa (1st)	7	19	26	12	14	26
" " " (2nd)	40	110	150	34	138	172
Peterborough	10	54	64	14	72	86
Stratford	22	85	107	21	74	95
Toronto	63	166	229	43	182	225
Toronto Kindergarten-Primary	....	....	....	....	20	20
Total	211	779	990	196	891	1,087

Decrease in attendance during the past three years may be ascribed to:

1. Low rates of remuneration paid teachers, particularly in rural communities. Indications exist that operations of the law of supply and demand are beginning to bring about readjustments in this situation.

2. The raising of entrance requirements from Middle to Upper School standing.

3. The introduction of a medical examination in determining the eligibility of candidates. Not only have several candidates been debarred each year, but others have reconsidered their intention of pursuing a vocation which so obviously demands in high degree both health and vigour. Though the two factors, last named, will doubtless continue to operate, it is felt that the superior type of entrant thus obtained will more than make up for the resulting diminution of numbers.

4. A surplus of certificated teachers from years during which easier entrance requirements had resulted in a flooding of all Normal Schools, particularly at a time when financial depression was causing many teachers to remain in service beyond the usual period. Though scarcity of teachers is now an actual condition in many parts of the province there still persists from other years the idea that Normal School graduates find difficulty in obtaining employment.

Provision for Observation and Practice Teaching

During the year certain experiments were carried on more particularly in the Toronto Normal School with respect to observation and practice teaching. Arrangements were made with the Toronto Board of Education whereby critic teachers were selected from schools throughout the city instead of, as formerly, being located in one or two special schools. Arrangements were also made for two weeks of continuous observation and teaching, one immediately after the Christmas holidays and one immediately after the Easter holidays, in rural schools throughout the several home counties of the Normal School students.

Changes in Staffs

Thornton Mustard, B.A., B.Paed., was appointed in September to the Principalship of the Toronto Normal School in place of David Whyte, B.A., B.Paed., who retired in July. Mr. Mustard was born and received his early education in Huron County. After graduating from the faculties of arts and education, Toronto University, and teaching in Huron County and Toronto, he was appointed Headmaster of the Normal-Model and later English Master in the Normal Schools Toronto. His appointment as Principal follows a two-year leave of absence during which time he was engaged in the preparation of the new course of study for elementary schools.

J. V. McIntyre, B.A., B.Paed., Mathematical Master of the Peterborough Normal School was transferred to Hamilton to take the place of J. H. Davidson, B.A., B.Paed., retired in June. Following the death of Mr. Halnan, Mr. Davidson was asked to take over the duties of Mathematical Master in the Stratford Normal School for the remainder of the term.

Adrian Macdonald, M.A., of the Peterborough Normal School was transferred to the Toronto Normal School to take the place of W. H. T. Mooney who was appointed public school inspector for York No. 1. R. H. Roberts, M.A., was transferred from the inspectorate of York No. 1 to the Peterborough Normal School.

Miss E. G. Conover was transferred from the Ontario School for the Deaf to take the place of Miss Olga Johnston, assistant teacher of home economics in the Toronto Normal School. Miss Johnston was transferred to the Peterborough Normal School to take over the duties of Miss Elizabeth MacVannel, retired.

Miss Joicey M. Horne was appointed from the Duke of York Public School to take over the duties of Dr. Eleanor Shepherd-Thompson, Toronto Normal School, who has been granted extended leave of absence.

Miss Jean Care was appointed from Forest Hill Public School to the position of assistant kindergarten directress in the Toronto Normal-Model in place of Miss M. A. Campbell who retired in June.

Miss Dorothy Emery, Instructress in Art in the London Normal School, was assigned additional duty in the Stratford Normal School to take the place of Mrs. C. A. Mayberry who retired last June.

Miss Jean Moore of the Aylmer Public School was appointed Music Instructress in the Hamilton Normal School. She assumed the duties formerly in the charge of the late Captain H. Stares.

Dr. Louis Charbonneau has been released from the staff of the University of Ottawa Normal School to assist in the preparation of French text-books.

Obituaries

Captain Harry A. Stares, Music Instructor in the Hamilton Normal School since the time of its foundation in 1908, died at his home February 15th, 1939. Jovial, patient, kind but firm he gave unstintedly both time and effort in the promotion of better music in the schools of the province. Apart from the field of education he had a long and distinguished career as director of music in Christ's Church Cathedral, leader of the 91st Highlanders' Band, and brigade bandmaster overseas. His genial personality no less than his mastery of music will long continue an inspiration to many teachers in Ontario.

Lemen Robert Halnan received an elementary and secondary education in Oshawa, the city of his birth. After a model school course and some years' experience as a rural school teacher, he attended Trinity College, graduating with an M.A. degree, and completed his professional training at the Ontario Normal College. He became housemaster at Pickering College, taught in the Georgetown and Brampton High Schools, and in 1922 was appointed Mathematical Master, Stratford Normal School. He continued in this position until his sudden death, November 8th, 1938. Mr. Halnan was an outstanding teacher, conscientious and painstaking in the performance of every duty, exacting of himself but patient and tolerant with others.

Dr. W. J. Karr passed away at his home in Toronto on December 18th 1938. An educationist whose life, both private and professional, exemplified in the highest degree the virtues of the Ryerson conception of education—endeavour, sincerity, scholarship, culture, moral and mental integrity. Born in Lambton County he received his early training in the Forest Public, High, and Model Schools; the Toronto Normal School; the Ontario Normal College; and successfully graduated from Queen's University with the degrees B.A., B.Paed., and D.Paed.

Beginning his teaching career in a Lambton rural school, he became in turn Principal of the Sarnia Model School, English Master in the North Bay Normal School, Assistant Principal of the English-French Model School at Ottawa; Director of Rural School Organization, Director of English Instruction in English-French schools, and in 1938 Director of Professional Training.

Devoted to duty, and loyal in all his associations, he was responsible for an effective organization in each of the several departments over which he had charge. His greatest contribution to education, however, was the life and ideals of a Christian gentleman.

H. E. Amoss,
Director of Professional Training.

Toronto, May 18, 1939.

APPENDIX D

REPORT OF THE DIRECTOR OF FRENCH INSTRUCTION ON THE SCHOOLS ATTENDED BY FRENCH-SPEAKING PUPILS, 1938.

Appointments and Transfers

Mr. Rémi Millette, B.A., B.Paed., formerly assistant principal of the Sturgeon Falls High School, was appointed to R.C. Separate Division III, with residence in Cochrane. Mr. Millette, who replaced Mr. Rosario Masse, B.A., began his duties on September 1st, 1938.

Mr. Adélard Gascon, B.A., was transferred from R.C. Separate Division VII, Windsor, to R.C. Separate Division XIX and District Division XII, Part II, with residence in Ottawa.

Mr. Lucien Laplante, M.A., was transferred from R.C. Separate Division XIX and District Division XII, Part II, Ottawa, to R.C. Separate Division VII, with residence in Windsor.

Training of Teachers—Improvement in Qualifications

In 1937-38, there were 196 teachers-in-training at the University of Ottawa Normal School, 170 of whom were enrolled in the Second Class course, and 26 in the First Class course. As a result of the term and final examinations, 17 students were awarded First Class teachers' certificates and 121 obtained Second Class certificates.

The use of rural ungraded schools for some of the practice teaching in connection with the training of future teachers was a happy and successful innovation.

The following table shows the number of French-speaking teachers holding First or Second Class certificates in 1938, and the progress made in this regard since 1929.

Total number of teachers under French-speaking inspectors, November 1938	1,316
Total number of teachers holding I or II class certificates, November 1938	1,135
Total per cent. of teachers holding I or II class certificates, November 1938	86.24
Total per cent. of teachers holding I or II class certificates, November 1937	79.46
Total per cent. of teachers holding I or II class certificates, November 1929	25.11

Age-Grade Distribution of Pupils in Elementary Schools

The following tables present a compilation of the French-speaking School Inspectors' Annual Age-Grade Summary Reports for May 1938:—

TABLE No. 1

AGE-GRADE DISTRIBUTION IN ELEMENTARY SCHOOLS ATTENDED BY FRENCH-SPEAKING PUPILS, MAY 1938

(A) Separate and Public Schools

(i) RURAL AND URBAN

Grade	Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals Per cent.
I	4	233	2,563	3,984	2,404	1,101	507	218	112	66	18	5	.....	1	.....	......	11,216	23.66
II	......	......	70	1,008	2,256	1,773	1,008	477	229	120	43	4	2	2	.....	......	6,992	14.75
III	......	......	1	82	738	1,527	1,192	736	409	194	65	26	4	.....	.....	......	4,974	10.49
IV	......	......	......	8	186	865	1,587	1,282	852	454	224	76	13	1	.....	......	5,548	11.71
V	......	......	......	......	26	252	1,034	1,512	1,371	969	477	162	21	4	.....	......	5,828	12.30
VI	......	......	......	......	1	28	288	919	1,321	1,119	759	281	50	9	.....	......	4,775	10.07
VII	......	......	......	......	......	2	23	247	828	1,123	924	457	142	17	1	......	3,764	7.95
VIII	......	......	......	......	......	......	2	44	290	727	879	626	297	41	7	......	2,913	6.15
IX	......	......	......	......	......	......	......	2	18	106	202	211	138	40	8	2	727	1.53
X	......	......	......	......	......	......	......	......	3	15	63	134	142	63	19	4	443	.93
Auxiliary Classes	......	......	......	......	1	6	7	14	15	30	47	74	17	5	1	......	217	.46
GRAND TOTALS	4	233	2,634	5,082	5,612	5,554	5,648	5,451	5,448	4,923	3,701	2,056	826	183	36	6	47,397	....

NOTE:—Heavy lines denote ideal age spread for each grade.

(ii) Rural

Grade	Sex	Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals by Grades
I.	Boys	2	104	576	871	713	370	196	102	59	31	9	3	.....	.....	.....	.....	3,036	5,601
	Girls	1	69	563	869	563	287	115	53	21	17	5	1	.....	1	.....	.....	2,565	
II.	Boys	.....	.....	12	125	367	419	289	153	87	45	19	1	2	.....	.....	.....	1,519	2,751
	Girls	.....	.....	13	149	357	340	196	102	45	18	10	1	.....	1	.....	.....	1,232	
III.	Boys	.....	.....	1	6	98	271	243	177	124	64	26	5	1	.....	.....	.....	1,016	1,901
	Girls	.....	.....	.....	17	133	270	218	147	68	28	2	2	.....	.....	.....	.....	885	
IV.	Boys	.....	.....	.....	.....	26	105	262	257	191	115	57	17	.....	.....	.....	.....	1,030	1,937
	Girls	.....	.....	.....	3	44	171	273	209	131	49	17	5	5	.....	.....	.....	907	
V.	Boys	.....	.....	.....	.....	1	35	154	263	295	225	109	37	5	.....	.....	.....	1,124	2,247
	Girls	.....	.....	.....	.....	3	52	234	338	261	168	50	15	2	.....	.....	.....	1,123	
VI.	Boys	.....	.....	.....	.....	.....	2	36	127	224	216	153	57	4	1	.....	.....	820	1,739
	Girls	.....	.....	.....	.....	1	12	76	199	302	205	95	26	3	.....	.....	.....	919	
VII.	Boys	.....	.....	.....	.....	.....	.....	3	32	127	176	185	68	24	3	.....	.....	618	1,361
	Girls	.....	.....	.....	.....	.....	.....	7	57	201	241	163	60	12	2	.....	.....	743	
VIII.	Boys	.....	.....	.....	.....	.....	.....	.....	4	40	96	151	94	44	7	2	.....	438	1,025
	Girls	.....	.....	.....	.....	.....	.....	1	12	56	164	198	105	45	5	1	.....	587	
IX.	Boys	.....	.....	.....	.....	.....	.....	.....	.....	2	7	16	19	12	8	1	.....	65	203
	Girls	.....	.....	.....	.....	.....	.....	.....	.....	2	20	48	40	24	1	2	1	138	
X.	Boys	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	7	7	5	2	3	31	130
	Girls	.....	.....	.....	.....	.....	.....	.....	.....	1	2	17	23	36	17	3	.....	99	
Totals By Sexes.	Boys	2	104	589	1,002	1,205	1,202	1,183	1,115	1,149	975	732	308	99	24	5	3	9,697	
	Girls	1	69	576	1,038	1,101	1,132	1,120	1,117	1,088	912	605	278	127	27	6	1	9,198	
Grand Totals.	.....	3	173	1,165	2,040	2,306	2,334	2,303	2,232	2,237	1,887	1,337	586	226	51	11	4	.....	18,895

Note:—Heavy lines denote ideal age spread for each grade.

(iii) URBAN

Grade	Sex	Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals by Grades
I.............	Boys	1	25	662	1,166	646	277	135	49	18	10	4	1	.....	.....	.....	.....	2,994	5,615
	Girls	......	35	762	1,078	482	167	61	14	14	8	......	......	.....	.....	.....	.....	2,621	
II.............	Boys	......	.....	12	325	719	527	330	154	60	37	10	2	.....	1	.....	.....	2,177	4,241
	Girls	......	.....	33	409	813	487	193	68	37	20	4	......	.....	.....	.....	.....	2,064	
III............	Boys	......	.....	......	10	204	487	409	272	138	77	31	14	3	.....	.....	.....	1,645	3,073
	Girls	......	.....	......	49	303	499	322	140	79	25	6	5	.....	.....	.....	.....	1,428	
IV.............	Boys	......	.....	......	4	48	254	511	429	329	191	120	43	6	.....	.....	.....	1,935	3,611
	Girls	......	.....	......	1	68	335	541	387	201	99	30	11	2	1	.....	.....	1,676	
V..............	Boys	......	.....	......	......	8	53	254	420	413	340	186	77	10	3	.....	.....	1,764	3,581
	Girls	......	.....	......	......	14	112	392	491	402	236	132	33	4	1	.....	.....	1,817	
VI.............	Boys	......	.....	......	......	......	5	54	258	377	359	299	141	32	8	.....	.....	1,533	3,036
	Girls	......	.....	......	......	......	9	122	335	418	339	212	57	11	.....	.....	.....	1,503	
VII............	Boys	......	.....	......	......	......	1	7	68	212	322	321	199	86	11	.....	.....	1,227	2,403
	Girls	......	.....	......	......	......	1	6	90	288	384	255	130	20	1	1	.....	1,176	
VIII...........	Boys	......	.....	......	......	......	......	......	9	86	182	235	204	116	18	3	.....	853	1,888
	Girls	......	.....	......	......	......	......	1	19	108	285	295	223	92	11	1	.....	1,035	
IX.............	Boys	......	.....	......	......	......	......	......	......	4	28	56	51	46	15	5	1	206	524
	Girls	......	.....	......	......	......	......	......	2	10	51	82	101	56	16	.....	.....	318	
X..............	Boys	......	.....	......	......	......	......	......	......	1	6	13	35	57	28	11	1	152	313
	Girls	......	.....	......	......	......	......	......	......	1	7	26	69	42	13	3	.....	161	
Auxiliary Classes	Boys	......	.....	......	......	......	4	5	9	11	13	25	42	11	4	1	.....	125	217
	Girls	......	.....	......	......	1	2	2	5	4	17	22	32	6	1	.....	.....	92	
GRAND TOTALS..	......	1	60	1,469	3,042	3,306	3,220	3,345	3,219	3,211	3,036	2,364	1,470	600	132	25	2	....	28,502

NOTE:—Heavy lines denote ideal age spread for each grade.

(B) Separate Schools

(i) RURAL AND URBAN

Grade	Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals Per cent.
I	4	192	2,357	3,737	2,190	973	451	195	101	63	16	4	.....	.....	.....	.....	10,283	23.41
II	.....	.....	47	927	2,128	1,630	935	447	199	106	37	4	2	1	.....	.....	6,463	14.71
III	.....	.....	1	81	705	1,427	1,094	673	371	183	62	26	4	.....	.....	.....	4,627	10.53
IV	.....	.....	.....	8	164	804	1,467	1,173	778	413	212	72	11	1	.....	.....	5,103	11.62
V	.....	.....	.....	.....	19	236	979	1,409	1,260	893	448	155	17	4	.....	.....	5,420	12.34
VI	.....	.....	.....	.....	1	22	263	873	1,251	1,044	706	264	49	9	.....	.....	4,482	10.20
VII	.....	.....	.....	.....	.....	2	19	231	782	1,051	844	426	134	16	1	.....	3,506	7.98
VIII	.....	.....	.....	.....	.....	.....	1	38	269	681	813	571	275	39	7	.....	2,694	6.13
IX	.....	.....	.....	.....	.....	.....	.....	2	17	101	199	207	137	39	8	2	712	1.62
X	.....	.....	.....	.....	.....	.....	.....	.....	3	15	62	134	141	61	19	3	438	1.00
Auxiliary Classes	.....	.....	.....	.....	1	6	7	14	13	28	44	69	15	3	1	.....	201	.46
GRAND TOTALS	4	192	2,405	4,753	5,208	5,100	5,216	5,055	5,044	4,578	3,443	1,932	785	173	36	5	43,929	....

NOTE:—Heavy lines denote ideal age spread for each grade.

(ii) RURAL

Grade	Sex	Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals by Grades
I..............	Boys	2	90	500	778	609	307	163	84	51	28	9	3	......	......	......	......	2,624	
	Girls	1	52	500	769	473	229	92	49	18	17	3	......	......	......	......	......	2,203	4,827
II..............	Boys	......	......	6	105	332	367	249	136	70	34	15	1	2	......	......	......	1,317	
	Girls	......	......	5	132	320	298	182	94	36	16	8	1	......	......	......	......	1,092	2,409
III............	Boys	......	......	1	6	94	250	216	157	103	58	23	5	1	......	......	......	914	
	Girls	......	......	......	16	123	240	188	128	61	25	2	2	......	......	......	......	785	1,699
IV.............	Boys	......	......	......	......	17	90	218	228	161	99	51	16	......	......	......	......	880	
	Girls	......	......	......	3	36	144	242	170	116	43	15	4	3	......	......	......	776	1,656
V..............	Boys	......	......	......	......	1	29	145	234	249	197	92	35	2	......	......	......	984	
	Girls	......	......	......	......	2	48	207	293	224	146	46	11	1	......	......	......	978	1,962
VI.............	Boys	......	......	......	......	......	1	34	114	213	195	129	49	3	1	......	......	739	
	Girls	......	......	......	......	1	9	60	185	275	181	84	22	3	......	......	......	820	1,559
VII............	Boys	......	......	......	......	......	......	1	25	111	159	159	62	22	3	......	......	542	
	Girls	......	......	......	......	......	......	6	50	182	207	137	54	10	2	......	......	648	1,190
VIII...........	Boys	......	......	......	......	......	......	......	3	35	84	131	85	37	5	2	......	382	
	Girls	......	......	......	......	......	......	......	8	44	147	177	88	43	5	1	......	513	895
IX.............	Boys	......	......	......	......	......	......	......	......	1	7	16	18	12	8	1	......	63	
	Girls	......	......	......	......	......	......	......	......	2	17	48	39	24	1	2	1	134	197
X..............	Boys	......	......	......	......	......	......	......	......	......	......	7	7	7	5	2	3	31	
	Girls	......	......	......	......	......	......	......	......	1	2	17	23	36	17	3	......	99	130
TOTALS BY SEXES........	Boys	2	90	507	889	1,053	1,044	1,026	981	994	861	634	281	86	22	5	3	8,478	
	Girls	1	52	505	920	955	968	977	977	959	801	535	244	120	25	6	1	8,046	....
GRAND TOTALS..	......	3	142	1,012	1,809	2,008	2,012	2,003	1,958	1,953	1,662	1,169	525	206	47	11	4	....	16,524

NOTE:—Heavy lines denote ideal age spread for each grade.

(iii) URBAN

Grade	Sex	Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals by Grades
I	Boys	1	18	623	1,131	633	273	135	48	18	10	4	1	....	....	....	....	2,895	5,456
	Girls	....	32	734	1,059	475	164	61	14	14	8	....	....	....	....	....	....	2,561	
II	Boys	....	....	8	304	689	503	315	149	59	36	10	2	....	1	....	....	2,076	4,054
	Girls	....	....	28	386	787	462	189	68	34	20	4	....	....	....	....	....	1,978	
III	Boys	....	....	....	10	195	471	385	257	128	75	31	14	3	....	....	....	1,569	2,928
	Girls	....	....	....	49	293	466	305	131	79	25	6	5	....	....	....	....	1,359	
IV	Boys	....	....	....	4	46	248	494	412	313	178	116	41	6	....	....	....	1,858	3,447
	Girls	....	....	....	1	65	322	513	363	188	93	30	11	2	1	....	....	1,589	
V	Boys	....	....	....	....	7	51	246	407	399	328	184	76	10	3	....	....	1,711	3,458
	Girls	....	....	....	....	9	108	381	475	388	222	126	33	4	1	....	....	1,747	
VI	Boys	....	....	....	....	....	5	50	252	364	343	292	137	32	8	....	....	1,483	2,923
	Girls	....	....	....	....	....	7	119	322	399	325	201	56	11	....	....	....	1,440	
VII	Boys	....	....	....	....	....	1	7	68	212	312	305	189	82	10	....	....	1,186	2,316
	Girls	....	....	....	....	....	1	5	88	277	373	243	121	20	1	1	....	1,130	
VIII	Boys	....	....	....	....	....	....	....	8	86	177	223	191	107	18	3	....	813	1,799
	Girls	....	....	....	....	....	....	1	19	101	273	282	207	88	11	1	....	986	
IX	Boys	....	....	....	....	....	....	....	....	4	27	54	51	46	15	5	1	203	515
	Girls	....	....	....	....	....	....	....	2	10	50	81	99	55	15	....	....	312	
X	Boys	....	....	....	....	....	....	....	....	1	6	12	35	56	26	11	....	147	308
	Girls	....	....	....	....	....	....	....	....	1	7	26	69	42	13	3	....	161	
Auxiliary Classes	Boys	....	....	....	....	....	4	5	9	9	11	22	37	9	2	1		109	201
	Girls	....	....	....	....	1	2	2	5	4	17	22	32	6	1	....	....	92	
TOTALS BY SEXES	Boys	1	18	631	1,449	1,570	1,556	1,637	1,610	1,593	1,503	1,253	774	351	83	20	1	14,050	
	Girls	....	32	762	1,495	1,630	15,32	1,576	1,487	1,498	1,413	1,021	633	228	42	5	....	13,355	
GRAND TOTALS	....	1	50	1,393	2,914	3,200	3,088	3,213	3,097	3,091	2,916	2,274	1,407	579	126	25	1	....	27,405

NOTE:—Heavy lines denote ideal age spread for each grade.

(C) Public Schools

(i) RURAL AND URBAN

Grade	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals Per cent.
I	41	206	247	214	128	56	23	11	3	2	1	.....	1	.....	.....	933	26.90
II	.....	23	81	128	143	73	30	30	14	6	.....	.....	1	.....	.....	529	15.25
III	.....	.....	1	33	100	98	63	38	11	3	.....	.....	.....	.....	.....	347	10.01
IV	.....	.....	.....	22	61	120	109	74	41	12	4	2	.....	.....	.....	445	12.83
V	.....	.....	.....	7	16	55	103	111	76	29	7	4	.....	.....	.....	408	11.77
VI	.....	.....	.....	.....	6	25	46	70	75	53	17	1	.....	.....	.....	293	8.45
VII	.....	.....	.....	.....	.....	4	16	46	72	80	31	8	1	.....	.....	258	7.44
VIII	.....	.....	.....	.....	.....	1	6	21	46	66	55	22	2	.....	.....	219	6.32
IX	.....	.....	.....	.....	.....	.....	.....	1	5	3	4	1	1	.....	.....	15	.43
X	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	2	.....	1	5	.14
Auxiliary Classes	.....	.....	.....	.....	.....	.....	.....	2	2	3	5	2	2	.....	.....	16	.46
GRAND TOTALS	41	229	329	404	454	432	396	404	345	258	124	41	10	.....	1	3,468	.....

NOTE:—Heavy lines denote ideal age spread for each grade.

(ii) RURAL

Grade	Sex	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals by Grades
I....................	Boys Girls	14 17	76 63	93 100	104 90	63 58	33 23	18 4	8 3	3	 2	 1	....	 1	....	....	412 362	774
II....................	Boys Girls	....	6 8	20 17	35 37	52 42	40 14	17 8	17 9	11 2	4 2	....	....	 1	....	....	202 140	342
III..................	Boys Girls	....	....	 1	4 10	21 30	27 30	20 19	21 7	6 3	3	....	....	....	....	....	102 100	202
IV..................	Boys Girls	....	....	....	9 8	15 27	44 31	29 39	30 15	16 6	6 2	1 1	 2	....	....	....	150 131	281
V..................	Boys Girls	....	....	....	 1	6 4	9 27	29 45	46 37	28 22	17 4	2 4	3 1	....	....	....	140 145	285
VI..................	Boys Girls	....	....	....	....	1 3	2 16	13 14	11 27	21 24	24 11	8 4	1	....	....	....	81 99	180
VII.................	Boys Girls	....	....	....	....	....	2 1	7 7	16 19	17 34	26 26	6 6	2 2	....	....	....	76 95	171
VIII................	Boys Girls	....	....	....	....	....	 1	1 4	5 12	12 17	20 21	9 17	7 2	2	....	....	56 74	130
IX..................	Boys Girls	....	....	....	....	....	....	....	1	 3	....	1 1	....	....	....	....	2 4	6
TOTALS BY SEXES....	Boys Girls	14 17	82 71	113 118	152 146	158 164	157 143	134 140	155 129	114 111	100 68	27 34	13 7	2 2	....	....	1,221 1,150	2,371
GRAND TOTALS.......	......	31	153	231	298	322	300	274	284	225	168	61	20	4	.....	......	2,371	....

NOTE:—Heavy lines denote ideal age spread for each grade.

(iii) URBAN

Grade	Sex	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals by Grades
I	Boys	7	39	35	13	4	......	1	......	......	......	......	......	......	......	......	99	
	Girls	3	28	19	7	3	......	......	......	......	......	......	......	......	......	......	60	159
II	Boys	......	4	21	30	24	15	5	1	1	......	......	......	......	......	......	101	
	Girls	......	5	23	26	25	4	......	3	......	......	......	......	......	......	......	86	187
III	Boys	......	......	......	9	16	24	15	10	2	......	......	......	......	......	......	76	
	Girls	......	......	......	10	33	17	9	......	......	......	......	......	......	......	......	69	145
IV	Boys	......	......	......	2	6	17	17	16	13	4	2	......	......	......	......	77	
	Girls	......	......	......	3	13	28	24	13	6	......	......	......	......	......	......	87	164
V	Boys	......	......	......	1	2	8	13	14	12	2	1	......	......	......	......	53	
	Girls				5	4	11	16	14	14	6	......	......	......	......	......	70	123
VI	Boys	......	......	......	......	......	4	6	13	16	7	4	......	......	......	......	50	
	Girls	......	......	......	......	2	3	13	19	14	11	1	......	......	......	......	63	113
VII	Boys	......	......	......	......	......	......	......	......	10	16	10	4	1	......	......	41	
	Girls	......	......	......	......	......	1	2	11	11	12	9	......	......	......	......	46	87
VIII	Boys	......	......	......	......	......	......	1	......	5	12	13	9	......	......	......	40	
	Girls	......	......	......	......	......	......	......	4	12	13	16	4	......	......	......	49	89
IX	Boys	......	......	......	......	......	......	......	......	1	2	......	......	......	......	......	3	
	Girls	......	......	......	......	......	......	......	......	1	1	2	1	1	......	......	6	9
X	Boys	......	......	......	......	......	......	......	......	......	1	......	1	2	......	1	5	
	Girls	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	5
Auxiliary Classes	Boys	......	......	......	......	......	......	......	2	2	3	5	2	2	......	......	16	
	Girls	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	16
GRAND TOTALS	......	10	76	98	106	132	132	122	120	120	90	63	21	6	....	1	1,097	1,097

NOTE:—Heavy lines denote ideal age spread for each grade.

TABLE No. 2

ANALYSIS OF AGE-GRADE DISTRIBUTION IN RELATION TO IDEAL AGE SPREAD IN ELEMENTARY RURAL AND URBAN SCHOOLS ATTENDED BY FRENCH-SPEAKING PUPILS, MAY 1938

(A) Separate and Public Schools

GRADE	Under Ideal Age Spread		Within Ideal Age Spread		Over Ideal Age Spread	
	Number	Per cent.	Number	Per cent.	Number	Per cent.
I	4	0.04	6,780	60.45	4,432	39.51
II	....	....	3,334	47.68	3,658	52.32
III	1	.09	2,347	47.18	2,626	52.73
IV	8	.14	2,638	47.55	2,902	52.31
V	26	.46	2,798	48.00	3,004	51.54
VI	29	.61	2,528	52.94	2,218	46.45
VII	25	.66	2,198	58.39	1,541	40.94
VIII	46	1.58	1,896	65.09	971	33.33
IX	20	2.75	519	71.39	188	25.86
X	18	4.06	339	76.52	86	19.41
Totals	177	0.37	25,377	53.79	21,626	45.84

NOTE:—The 217 pupils enrolled in Auxiliary classes are not included in the above table.

(B) Separate Schools

GRADE	Under Ideal Age Spread		Within Ideal Age Spread		Over Ideal Age Spread	
	Number	Per cent.	Number	Per cent.	Number	Per cent.
I	4	0.04	6,286	61.13	3,993	38.83
II	....	....	3,102	48.00	3,361	52.00
III	1	.02	2,213	47.83	2,413	52.15
IV	8	.16	2,435	47.72	2,660	52.12
V	19	.35	2,624	48.41	2,777	51.24
VI	23	.51	2,387	53.26	2,072	46.23
VII	21	.59	2,064	58.88	1,421	40.53
VIII	39	1.45	1,763	65.44	892	33.11
IX	19	2.67	507	71.21	186	26.12
X	18	4.11	337	76.94	83	18.95
Totals	152	0.35	23,718	54.24	19,858	45.41

NOTE:—The 201 pupils enrolled in Auxiliary classes are not included in the above table.

(C) Public Schools

GRADE	Under Ideal Age Spread		Within Ideal Age Spread		Over Ideal Age Spread	
	Number	Per cent.	Number	Per cent.	Number	Per cent.
I	....	....	494	52.95	439	47.05
II	....	....	232	43.86	297	56.14
III	....	....	134	38.62	213	61.38
IV	....	....	203	45.62	242	54.38
V	7	1.72	174	42.65	227	55.63
VI	6	2.05	141	48.12	146	49.83
VII	4	1.55	134	51.94	120	46.51
VIII	7	3.20	133	60.73	79	36.07
IX	1	6.67	12	80.00	2	13.33
X	....	....	2	40.00	3	60.00
Totals	25	0.73	1,659	48.05	1,768	51.22

NOTE:—The 16 pupils enrolled in Auxiliary classes are not included in the above table.

TABLE No. 3

GRADE-ENROLMENT DISTRIBUTION IN ELEMENTARY SCHOOLS ATTENDED BY FRENCH-SPEAKING PUPILS, MAY 1938

(A) Separate and Public Schools

Grades	Rural		Urban		Rural and Urban	
	Number	Per cent.	Number	Per cent.	Number	Per cent.
I–IV	12,190	64.52	16,540	58.03	28,730	60.61
V–VIII	6,372	33.72	10,908	38.27	17,280	36.46
IX–X	333	1.76	837	2.94	1,170	2.47
Auxiliary	....	....	217	.76	217	.46

(B) Separate Schools

Grades	Rural		Urban		Rural and Urban	
	Number	Per cent.	Number	Per cent.	Number	Per cent.
I–IV	10,591	64.09	15,885	57.97	26,476	60.27
V–VIII	5,606	33.93	10,496	38.30	16,102	36.65
IX–X	327	1.98	823	3.00	1,150	2.62
Auxiliary	....	....	201	.73	201	.46

(C) Public Schools

Grades	Rural		Urban		Rural and Urban	
	Number	Per cent.	Number	Per cent.	Number	Per cent.
I–IV	1,599	67.44	655	59.71	2,254	65.00
V–VIII	766	32.31	412	37.56	1,178	33.96
IX–X	6	.25	14	1.27	20	.58
Auxiliary	....	....	16	1.46	16	.46

While the foregoing statistical tables show some progress over the situation reported in 1937, it is evident that much remains to be done yet in order to bring about a satisfactory age-grade distribution of pupils and to check the excessive drop in enrolment in the senior grades of the elementary school. It will be observed, for instance, that while 11,216 pupils were enrolled in Grade I classes of all elementary schools attended by French-speaking pupils in 1938, only 2,913 were found enrolled in Grade VIII classes. (Table No. 1, (A), (i)). This great discrepancy between the Grade I and Grade VIII enrolments would appear to be due largely to the fact that more than 50 per cent. of the pupils enrolled in Grades II, III, IV and V are too old for their respective classes, and are likely to drop out before reaching the higher grades of the school. (Table No. 2, (A)).

Of course, it will require some time, probably seven or eight years, before the conditions obtaining at present in the elementary schools are properly adjusted to the desired standards. That teachers and inspectors are sincerely applying themselves to correct the existing situation is unquestionable. The following comparison, for instance, shows clearly the successful effort that has been put forth within the past year.

		Under Ideal Age Spread (per cent.)	Within Ideal Age Spread (per cent.)	Over Ideal Age Spread (per cent.)
Grade I	1937	0.03	53.28	46.69
	1938	.04	61.13	38.83
Grade II	1937	....	36.52	63.48
	1938	....	48.00	52.00
Grade III	1937	....	36.13	63.87
	1938	.02	47.83	52.15

See 1937 Report, Table No. 2, and Table No. 2, (B) of this Report.

That much progress in only one year augurs well for the future.

Secondary School Classes

The following table shows the number of French-speaking pupils enrolled in December 1938 in the special French courses of Collegiate Institutes, High and Continuation Schools under Departmental supervision.

Grade	IX	X	XI	XII	XIII	Total
Number enrolled	327	182	155	143	32	839

There are, besides, 1,170 French-speaking pupils enrolled in Grades IX and X of the elementary schools (Table No. 1 (A), (i)) and approximately 1,000 who are taking these same courses in private schools and colleges. An effort will be made during the coming year to verify the last figure. Thus, in the province, there would be in all about 3,000 French-speaking pupils pursuing their studies in Grades IX to XIII in which advanced courses in French Grammar, French Literature and French Composition are given. If this number of 3,000 is compared with the approximate French-speaking school population from Grades I to XIII, say 50,000, we find that about 6 per cent. of the French-speaking pupils in Ontario remain at school beyond Grade VIII. This picture is not brightened when one analyses the table given above and observes that only 20 per cent. of those entering secondary schools reach either Grade XII or Grade XIII and that less than 4 per cent. attain Grade XIII.

Obviously, the main cause of this low and rapidly decreasing enrolment from grade to grade in the secondary schools is to be found and eradicated in the elementary school classes. Once the problem is solved in the elementary departments of the school, there should be automatic improvement in the secondary school enrolment and age-grade distribution of pupils. A continued effort should be made by teachers and inspectors to impress French-speaking parents and children with the importance of a good education. In some parts of the province, home and school clubs have been very helpful in that regard.

French Books in Secondary School Libraries

Marked progress was made during 1938 in the establishment and development of French libraries in the 16 secondary schools attended by French-speaking pupils. The following table, which was compiled from Principals' reports, shows the number and value of French books purchased during 1937 and 1938.

	Number	Value
French books purchased in 1937	276	$204.95
French books purchased in 1938	729	413.77
Total number of French books in secondary school libraries, December 31st, 1938	3,373	1,597.97

Secondary school boards, principals and teachers are to be commended for adding so generously during 1938 to their school libraries. Such investments to provide their classes with appropriate material for supplementary reading are sound and profitable.

Preparation and Revision of French Text-Books

The work of revising French text-books now in use in schools attended by French-speaking pupils and of preparing additional books was carried on successfully during the year. Dr. Louis Charbonneau, a member of the teaching staff of the University of Ottawa Normal School, was relieved of his ordinary duties and assigned this special task. The revision of the two authorized texts, *Recueil de Morceaux Choisis* and *Lectures Choisies*, used for teaching French Literature in Grades IX to XIII was completed. Circular 23-B, containing the details of the courses in French given at the University of Ottawa Normal School was also revised. A vast amount of preliminary work in connection with the preparation of new French readers was undertaken; a new French pre-primer entitled *Frou-Frou et Fin-Fin* was prepared and will be ready for the opening of schools in September 1939.

Provincial Contest

A Province-wide competition was organized during the year among the 3,000 Grade VIII French-speaking pupils. After winning preliminary tests in their own schools and inspectorates, twenty-two contestants—one boy and one girl from each of the eleven French-speaking inspectorates—took part in the finals held in Ottawa on May 25th, 1938. The four winners, who were awarded secondary school scholarships, were as follows:

1st boy: Jean-Guy Blais, 12 years old, of Sturgeon Falls;
1st girl: Gilberte Dubois, 12 years old, of Hawkesbury;
2nd boy: Roger Despatie, 12 years old, of Ottawa;
2nd girl: Jeannine Dubé, 12 years old, of Ottawa.

This contest was organized with two main objectives in view: firstly, to draw into closer co-operation the home and the school; secondly, to impress upon French-speaking parents and children the importance of secondary school education. Reports from teachers and inspectors all over the province show that this first attempt was very successful and that it should be repeated annually.

Teachers' Study Groups

A very interesting experiment was carried on during the year in the majority of French-speaking inspectorates. Teachers' study groups, known as *Cercles pédagogiques*, were organized with the special aim of acquainting the teachers thoroughly with the new Programme of Studies and other matters affecting particularly schools attended by French-speaking pupils. Inspectors report favourably on the results obtained through the establishment of these study groups. In one of the Eastern Ontario inspectorates, for instance, the Inspector states that all the teachers under his jurisdiction are divided into four such groups, each group meeting with the Inspector once a month, on Friday evening, to study their particular school problems. In this case, of course, it means that the Inspector must spend practically every Friday evening with one-quarter of his teaching staff, but, according to this Inspector's report, the improvement noted in the classrooms is well worth the time and energy such conferences require. This spirit of co-operation between teachers and inspectors is to be highly commended.

ROBERT GAUTHIER,
Director of French Instruction.

Toronto, April 29th, 1939.

APPENDIX E

REPORT OF THE PRINCIPAL OF THE ONTARIO TRAINING COLLEGE FOR TECHNICAL TEACHERS

Classes and Enrolment, 1937-38

In the school year beginning in September 1937, and ending in June 1938, courses for the following certificates were offered at the Ontario Training College for Technical Teachers:

Ordinary Vocational Certificate,
Intermediate Manual Training Certificate,
Elementary Manual Training Certificate, Type B, Part I,
Elementary Home Economics Certificate, Type C, Part I.

The classes for the Elementary Manual Training and Elementary Home Economics Certificates were held on Saturdays in Hamilton and Ottawa.

The enrolment in these classes was as follows:

Ordinary Vocational Certificate	14
Intermediate Manual Training	22
Elementary Manual Training, Type B, Part I	
at Hamilton	52
at Ottawa	47
Elementary Home Economics, Type C, Part I	
at Hamilton	38
at Ottawa	47
Total	220

Summer Session, 1938

The classes offered in the summer session of 1938 were attended by large numbers. The enrolment was as follows:

1. MANUAL TRAINING OR SHOP WORK:

(a) Hamilton		
Elementary Manual Training, Type B, Part I	158	
Elementary Manual Training, Type B, Part II	139	
Elementary Manual Training, Type A, Part I	82	
Elementary Manual Training, Type A, Part II	72	
Specialist Manual Training, Part I	28	
Specialist Manual Training, Part II	19	
Specialist Extension	20	
(b) Ottawa		
Elementary Manual Training, Type B, Part I	61	
		579

2. HOME ECONOMICS:		
(a) Hamilton		
Elementary Home Economics, Type C, Part I	166	
Elementary Home Economics, Type C, Part II	185	
(b) Ottawa		
Elementary Home Economics, Type C, Part I	85	
(c) Toronto		
Elementary Home Economics, Type B, Part I	79	
Elementary Home Economics, Type B, Part II	37	
		552
3. VOCATIONAL GUIDANCE		32
4. VOCATIONAL:		
Principals	25	
Specialists	32	
Ordinary Permanent	5	
Ordinary Interim (H.S.A.)	1	
Special	6	
Sewing and Dressmaking, Part I	35	
Sewing and Dressmaking, Part II	17	
	121	
Less duplicates	26	
		95
Total		1,258

The large enrolment in the courses in home economics and manual training shows an increasing desire on the part of teachers to prepare themselves for teaching such practical work. While this desire is commendable, teachers should bear in mind that two short summer courses cannot give adequate preparation for teaching the more advanced courses in these subjects. If they expect to teach in schools which are making a serious effort to extend the practical work of the new courses beyond Grade IX, they should plan to take further training. The success of the new courses in home economics and shop work depends much upon direction by well-trained teachers, skilful in performance and competent in knowledge.

The requirement of an elementary certificate in manual training for admission to the year course leading to the Intermediate Certificate is working out satisfactorily. In addition to providing some preliminary training, it has provided a means of selecting those with a natural aptitude for shop work.

The course for the Intermediate Certificate in Manual Training has been revised and extended to provide a better correlation between the training provided for the teachers and the subject matter of the new course of study.

The requirement of two summer courses in sewing and dressmaking for a permanent home economics certificate is proving its worth. The new courses in home economics provide for experience in clothing and textiles as well as in foods and nutrition. It is to meet this new emphasis that teachers are asked to obtain additional training on what is called the domestic arts side. From the comment of teachers it is apparent that the course provided is meeting a real need.

The supply of vocational teachers, except in one or two departments, barely equals the demand. Indeed, in some departments such as drafting, electricity, sheet metal work, and welding, there are not enough teachers to meet the demand. As soon as school boards find themselves able to make much needed additions to the staffs of vocational teachers, there will be a shortage, perhaps acute, of properly qualified teachers. School authorities are already experiencing difficulty in filling certain types of positions with suitable certificated teachers.

F. P. Gavin,
Principal.

Hamilton, August 1, 1939.

APPENDIX F

REPORT OF THE INSPECTOR OF AGRICULTURAL CLASSES

Agriculture has been and still is the basic industry of Canada, but with the development of modern agricultural industries, many of the processes which were formerly an integral part of home activities have been taken over by big business. The canning industry, the meat packing industry, the dairy industries, and the milling and baking industries all represent activities formerly conducted in the home where the raw materials were prepared for use. Farming is becoming more specialized, machinery is available for operations formerly done by hand, and tractors have in many cases replaced or reduced the number of horses kept on the farm. Because of these changes, a knowledge of the sources of raw materials and their processing must come through the school since these activities no longer form a part of home life. This is true not only in urban centres, but in many rural areas where specialized farming is carried on. The need of agricultural instruction is greater now than formerly if boys and girls are to leave school with a comprehensive knowledge of how the nation's food supply is provided. The programme of instruction must be adjusted to meet the changing conditions. School gardens in which vegetables, farm crops and flowers are grown are needed more than ever. Where possible, practice in rearing and caring for chickens at the school is desirable, and greater stress should be laid upon home project activities related to gardening, care of home grounds, and farm activities.

Excellent provision for instruction in agricultural subjects is made in the new courses of study for elementary and secondary schools. The courses in Natural Science for Grades I to VI include many elementary topics on Agriculture. An optional course in Agriculture, in addition to the course in Science, is provided in Grades VII and VIII and was being taken in September 1938 in 68.8 per cent. of the elementary schools. Optional courses are provided in Agricultural Science for Grades IX and X. These were being taken in September 1938 in 167 secondary schools. It is worthy of note that there has been a total increase in the number of schools taking Agriculture from 1932 to the present, in spite of the fact that special grants to teachers have been reduced by nearly 50 per cent. During the same period, the grants paid to boards have increased, showing that more is being spent for agricultural instruction. In many rural and urban schools this increased expenditure is reflected in the planting of flower beds and shrubs and other improvement in the appearance of the school grounds. In both elementary and secondary schools the standard of instruction is improving as more qualified teachers become available, and as the necessity of laying stress upon the practical applications of different topics is more generally understood.

In April 1938, sets of coloured pictures of breeds of dairy cattle were purchased by the Department of Education, and distributed to all elementary schools, and to the secondary schools in which Agriculture was being taught. These pictures represent the ideal type of each breed approved by the type committee of each Breeders' Association. Inspectors and teachers have been enthusiastic in their praise of these pictures as a valuable means of teaching the breeds of dairy cattle. In September, pamphlets prepared by the Ontario Department of Agriculture, and dealing with common ragweed, field bindweed, bladder campion, clover dodder, and leafy spurge, were sent to all elementary schools, and to secondary schools in which Agriculture was being taught. During the year, seeds of grasses and legumes were supplied to a number of schools where plots for such planting were established three years ago.

Beginning in September 1938, arrangements were made for a series of articles on Agriculture in "The School" magazine. The titles of the articles and the authors for the series follow: *The Programme of Agricultural Instruction in the Schools of Ontario*, Norman Davies, B.A., Department of Education; *Agriculture and Garden Projects in a Graded School*, I. W. McNaughton, Principal, Public School, Ridgetown; *Practical Agricultural Projects in a Continuation School*, R. O. Rilett, Lobo Continuation School, R. R. No. 2, Ilderton; *Supervised Farm Practice in Vocational Agricultural Classes*, H. B. Disbrowe, B.S.A., High School, Simcoe; *School Ground Improvement*, J. J. Neilson, B.S.A., High and Vocational School, Ridgetown; *A Poultry Project in High School Agriculture*, Andrew Dixon, B.S.A., High School, Hagersville; *Agricultural Activities and Projects in the Ungraded School*, Gordon Young, B.A., Inspector of Public Schools, Strathroy; *Phases of Agricultural Instruction in the Normal School*, A. J. Madill, B.A., D.Paed., Normal School, Peterborough; *Uses of a Greenhouse in Agricultural Instruction*, W. A. Porter, B.A., B.Paed., Scarborough Collegiate Institute, West Hill, P.O.

The subsequent paragraphs of this report deal with the progress of agricultural instruction in the elementary schools, secondary schools, summer schools and the Normal Schools:

Public and Separate Schools

The number of schools which have met the requirements of the Regulations and qualified for grants for Form III, Form IV, and Form V, since 1903, is given in the abbreviated table following:

Year	Number of Schools	With School Gardens	With Home Gardens
1903	4	....	....
1913	159	....	....
1914	264	208	56
1920	1,648	702	946
1928	3,395	1,059	2,336
1932	4.906	1,344	3,562
1934	5,201	1,594	3,607
1937	5,065	1,580	3,485
1938	4,928	1,743	3,185

The figures for 1938 are based on the number of reports received at the Department for the school year ending June 30th, 1938, and show that agricultural instruction was given in 68.8 per cent. of all the elementary schools, and in 71 per cent. of all rural schools and 56.4 per cent. of all urban schools. The decrease in the number of rural schools is due to adjustments being made because of the introduction of the new courses in Grades IV, V and VI. There is, however, a slight increase in the number of urban schools for 1938.

The following table shows the number of certificates held by teachers engaged in the work for the years given:

Year	Elementary	Elementary Part I	Intermediate	Intermediate Part I	Totals
1934	1,552	86	144	10	1,792
1935	1,957	106	163	16	2,242
1936	2,092	208	188	22	2,510
1937	2,351	502	218	42	3,113
1938	2,864	444	259	52	3,619

It will be noted that in 1938 there was an increase of 506 in the number of certificated teachers, and that in the 4,928 schools which reported instruction, there were 3,619 teachers who held certificates in Agriculture.

In addition to the courses for Form III and Form IV, Agriculture of the Lower School course was taken in fifth classes of 623 schools under the Regulations for Public and Separate Schools. The Lower School courses taught by a teacher holding an Intermediate Certificate are taken under the High School Regulations in the following schools: S.S. No. 7 Biddulph, Granton; Elizabeth Ziegler Public School, Waterloo; R.C. S.S. No. 6 Ellice and Logan, Kinkora; *Hearst Public School; Hespeler Public School; Innerkip Public School; Mayfair Public School, No. 5 Sandwich East; Mono Mills Public School; Port McNicoll Public School; *St. Andrew's West Separate School; *St. Patrick's Lyceum Separate School, Ottawa; St. Peter's Separate School, Peterborough; St. Raphael's West Separate School; Victoria Public School, Kitchener; Tecumseh Public School; Toronto Public Schools, *Brown, General Mercer, *Kimberley, *McMurrich, *Perth Avenue.

Secondary Schools

Instruction in Agriculture in secondary schools is provided under three schemes as stated below and may be taken in those schools which meet the requirements of the Department of Education.

1. Optional classes in Lower and Middle School as a part of the course for Normal Entrance or Matriculation.
2. Department of Agriculture under the High Schools Act.
3. Department of Agriculture under the Vocational Education Act.

Under scheme (1) above, Agriculture was taught during the year in the schools listed below. Under (a) are the schools in which Lower School courses only are taken, and under (b) both Lower and Middle School courses.

Collegiate Institutes

(a) Clinton, Cornwall, Goderich, Ingersoll, Kitchener, Oshawa, Perth, Seaforth, York Memorial, Vaughan Road. Total 10.

(b) Barrie, Belleville, Brockville, Cobourg, East York, Fort William, Lindsay, Napanee, Orillia, Picton, Port Arthur, Renfrew, Runnymede, Scarborough, Smith's Falls, Stamford, Strathroy. Total 17.

---

*Introduced in September 1938.

High Schools

(a) Alexandria, Arthur, *Blenheim, Bracebridge, Chesterville, Cobalt, Durham, Englehart, Essex, Flesherton, Forest, Harrow, *Havelock, Kapuskasing, Lakefield, Lucan, Madoc, Markham, Mattawa, Maxville, Meaford, Merritton, Morewood, Mount Forest, Niagara, Omemee, Orangeville, Port Credit, Shelburne, *Sydenham, Tilbury, Trenton, *Williamstown. Total 33.

(b) Alliston, Amherstburg, Athens, Beamsville, Bowmanville, Brighton, Burford, Burlington, Caledonia, Cayuga, Dundas, Dunnville, Elmira, Fergus, Fort Frances, Grimsby, Hagersville, Haileybury, Iroquois, Kemptville, Kincardine, Kingsville, Leamington, Listowel, Markdale, Midland, Milton, Mitchell, Nepean, Newburgh, New Liskeard, Norwich, Norwood, Oakville, Petrolia, Port Elgin, Port Perry, Rainy River, Ridgetown, Ridgeway, Saltfleet, Simcoe, Smithville, Stirling, Streetsville, Tweed, Uxbridge, Waterdown, Waterford, Watford, Whitby, Winchester. Total 52.

Continuation Schools

(a) Ailsa Craig, *Arkona, Beaverton, Bothwell, Burk's Falls, Chatsworth, Coldwater, *Delta, Eganville, Fordwich, *Forester's Falls, *Hensall, Grand Valley, Inglewood, Merlin, *Milverton, *Richard's Landing, *Stevensville, Thamesville, Tiverton, *Wellesley. Total 21.

(b) Agincourt, Ayr, Brooklin, Brownsville, Comber, Drayton, Drumbo, Embro, Florence, Ilderton, Little Britain, Lobo, Lynden, Lyndhurst, Melbourne, Merrickville, Mindemoya, Mount Albert, Mount Brydges, Mount Elgin, Mount Pleasant, New Dundee, New Hamburg, Orono, Pelham, Princeton, St. George, Sparta, Sundridge, Tamworth, Teeswater, Thamesford, Wheatley, Woodville. Total 34.

A summary of the above shows that Agriculture is now taken in twenty-seven Collegiate Institutes, eighty-five High Schools, and fifty-five Continuation Schools. During the year the work was introduced in four High Schools, and eight Continuation Schools, and was discontinued in three High Schools. Both Lower and Middle School courses are taken in one hundred and three schools.

The following abbreviated table shows the development in this phase of instruction since its beginning in 1913 and the number of schools now taking the work:

Year	Collegiate Institutes	High Schools	Continuation Schools	Total
1913	....	1	1	2
1918	8	13	4	25
1923	8	23	4	35
1928	14	44	23	81
1933	24	54	33	111
1935	26	67	40	133
1936	26	68	43	137
1937	27	83	48	158
1938	27	85	55	167

Two hundred and eighteen teachers are engaged in giving instruction in Agriculture. Of this number, one hundred and twenty-one hold the Specialist certificate, eighty-four being graduates of the Ontario Agricultural College.

*Introduced Agriculture in September 1938.

The following schools are taking work under the scheme indicated in (2) above: Drayton, Elmira, Listowel, Port Perry, Wheatley, and Whitby. Additional time is given to Agriculture and practical phases of the subject are stressed. At Elmira, Port Perry, and Whitby provision is made for Shop Work for boys and Home Economics for girls.

Under (3) above, the following schools are qualifying for grants under the Vocational Education Act: Beamsville, Kemptville, Renfrew, Ridgetown, Stamford, and Simcoe. In all except Stamford, provision is made for instruction in Shop Work and Home Economics and the new courses in these subjects, with stress on agricultural applications, are being followed. In all centres, stress is laid upon home project activities on agricultural topics, and at Simcoe a definite programme of supervised farm practice is being carried on with pupils of the agricultural department.

Summer Courses

The attendance at the Summer Courses in Agriculture at Guelph and Kemptville in 1938 was less than in 1937. The course for the Specialist certificate was given. The organization of classes was the same as in 1937, but fewer students were enrolled in each class division. The character of the work done and the results obtained at both centres were quite satisfactory.

The following table shows the attendance at the Summer Courses for the past five years:

Attendance at the Ontario Agricultural College, Guelph

Year	Elementary		Intermediate			Inspectors	Farm Mechanics	Total
	I	II	I	II	III			
1934............	112	95	38	45	12	1	17	320
1935............	188	112	61	46	......	2	....	409
1936............	414	223	79	72	......	3	24	815
1937............	368	408	88	79	......	3	23	969
1938............	209	307	52	101	26	3	21	719

Attendance at the Agricultural School, Kemptville

Year	Part I Elementary	Part II Elementary	Total
1934..	19	28	47
1935..	116	40	156
1936..	220	110	330
1937..	187	202	389
1938..	102	185	287

Normal Schools

Except in the University of Ottawa Normal School, instruction in Agriculture is a part of the regular course and the subject is taken by all students. Students who have taken four years of Agriculture in an approved school during their High School course are granted an Interim Elementary Certificate on successfully completing the Normal School course. Others must attend summer school to secure a certificate in Agriculture.

Facilities for instruction in practical phases of gardening and other topics are provided, the instructors are all qualified in Agriculture, and a good course is given as far as the time allotment on the Normal School programme will allow.

NORMAN DAVIES,
Inspector of Agricultural Classes.

Toronto, August 28, 1939.

APPENDIX G

REPORT OF THE INSPECTOR OF AUXILIARY CLASSES

Statistical Information for the School Year, 1937-38

Opportunity Classes.—For backward and psychopathic children and those who cannot successfully pursue the ordinary grade work, but who can be trained and whose mental age is not less than the legal school age.

Centre	Number of teachers	Enrolment at inspection	Boys	Girls	May Enrolment 1936	Percentage cared for in Opportunity Handicraft, and Special Industrial Classes	Grants
Barrie P.S.	1	16	15	1	1,180	1.36	$203.46
Belleville P.S.	1	17	15	2	1,882	.90	231.99
Belleville S.S.	1	15	12	3	439	3.41	298.71
Brantford P.S.	2	34	18	16	3,827	.89	419.86
Chatham P.S.	1	15	11	4	2,000	1.50	200.00
Cobden P.S.	1	4	4	......	95	4.21	80.46
Fort Frances P.S.	1	13	11	2	976	1.33	200.00
Fort William P.S.	1	16	6	10	3,291	1.40	222.68
Galt P.S.	1	16	11	5	1,713	.93	257.87
Grimsby P.S.	1	20	16	4	295	6.78	188.13
Guelph P.S.	3	49	32	17	2,545	2.79	634.51
Hamilton P.S.	10	177	120	57	21,067	2.25	1,825.47
Hamilton S.S.	5	105	51	54	4,618	3.90	839.16
Hawkesbury S.S.	(See Promotion Classes)				1,230	3.90	....
Ingersoll P.S.	1	20	14	6	730	2.74	235.51
Kingston S.S.	1	18	18	......	2,830	.64	263.22
Kirkland Lake P.S.	2	38	19	19	1,723	2.21	469.31
Kitchener P.S.	2	37	25	12	4,079	1.86	450.00
Kitchener S.S.	(See Promotion Classes)				1,686	1.07	....
Lindsay P.S.	1	13	10	3	957	1.36	287.96
Listowel P.S.	1	7	7	......	335	2.09	54.55
London P.S.	7	112	59	53	9,076	2.34	1,742.67
London S.S.	1	20	18	2	1,511	1.32	266.86
Midland P.S.	(See Promotion Classes)				798	2.26	....
Niagara Falls P.S.	3	54	31	23	2,574	2.10	641.43
North Bay P.S.	1	16	16	......	1,512	5.55	235.32
Oshawa P.S.	1	22	18	4	3,775	.58	229.33
Ottawa P.S.	9	98	58	40	10,021	3.03	1,139.20
Ottawa S.S.	2	41	18	23	11,288	1.31	421.15
Owen Sound P.S.	2	30	21	9	2,023	1.48	474.08
Pembroke P.S.	2	27	22	5	931	2.90	356.49
Penetanguishene P.S.	1	16	13	3	900	1.78	286.37
Peterborough P.S.	1	17	17	......	2,823	.60	211.66
Picton P.S.	1	18	10	8	435	4.14	178.62
Port Arthur P.S.	(See Promotion Classes)				2,412	1.66	....
Preston S.S.	1	19	15	4	311	6.11	154.63
Renfrew P.S.	1	18	10	8	430	4.19	175.00
Ridgetown P.S.	1	16	11	5	273	5.86	276.07
Sarnia P.S.	1	18	10	8	2,417	2.85	247.12
Sault Ste. Marie P.S.	1	19	14	5	3,011	2.12	197.65
No. 15½ Wilmot S.S.	1	5	3	2	80	6.25	84.62
St. Catharines P.S.	3	50	36	14	3,529	2.58	713.42
St. Thomas P.S.	2	29	16	13	1,885	1.54	450.76
Smith's Falls P.S.	1	15	7	8	944	1.59	229.78
Stratford P.S.	1	16	13	3	2,212	.72	211.50

Centre	Number of teachers	Enrolment at inspection	Boys	Girls	May Enrolment 1936	Percentage cared for in Opportunity Handicraft, and Special Industrial Classes	Grants
Sudbury P.S.	1	16	13	3	1,756	.91	$81.98
Sudbury S.S.	1	18	14	4	1,528	2.88	255.61
Swansea P.S.	1	19	13	6	646	2.93	245.43
Toronto P.S.	52	940	616	324	81,263	2.77	9,717.71
Toronto S.S.	10	188	120	68	12,220	3.09	1,908.23
Waterloo P.S.	1	15	10	5	1,047	1.43	225.00
Welland P.S.	1	16	13	3	1,906	.84	152.35
No. 6 Stamford P.S.	1	17	8	9	475	3.58	199.14
Windsor P.S.	4	60	40	20	12,354	1.36	859.64
Windsor S.S.	(See Promotion Classes)				7,094	.62	....
Woodstock P.S.	1	17	10	7	1,396	2.51	235.01
No. 8 Etobicoke P.S.	1	13	8	5	320	4.06	211.66
No. 16A Etobicoke P.S.	1	20	16	4	498	4.02	200.00
York Township P.S.	9	141	79	62	11,106	2.14	2,156.79
East York Twp. P.S.	5	80	41	39	5,984	1.34	1,195.54
North York Twp. P.S.	2	37	24	13	1,436	2.58	501.58
No. 10 Scarboro P.S.	1	12	5	7	882	2.94	208.67
No. 12 Scarboro P.S.	1	15	8	7	814	1.84	200.00
No. 15 Scarboro P.S.	1	16	9	7	557	2.87	233.49
Totals	175	2,946	1,898	1,048	....	....	$35,074.41

Handicraft and Special Industrial Classes.—For children thirteen years of age and over who are eligible for an Opportunity Class.

Centre	Number of teachers	Number of pupils	Boys	Girls	Grants
Chatham P.S.	1	15	15	....	$322.78
Fort William P.S.	2	30	14	16	676.20
Guelph P.S.	1	22	22	....	425.00
Hamilton	18	373	266	107	Paid by Tech. Education Br.
Hawkesbury S.S.	2	48	24	24	780.52
Kitchener P.S.	2	39	22	17	674.88
Kitchener S.S.	1	18	18	....	349.64
London P.S.	5	100	59	41	1,849.21
Midland P.S.	1	18	18	....	310.60
North Bay P.S.	4	68	35	33	1,358.24
Ottawa P.S.	10	206	131	75	2,631.33
Ottawa S.S.	5	107	59	48	1,678.44
Port Arthur P.S.	2	40	20	20	728.09
Sarnia P.S.	2	51	27	24	662.00
Sault Ste. Marie P.S.	2	45	27	18	647.25
St. Catharines P.S.	2	41	20	21	686.13
Sudbury S.S.	1	26	26	....	409.28
Toronto P.S.	52	1,169	624	545	Paid by Tech. Education Br.
Toronto, Church Street	11	316	316	....	1,719.04
Windsor P.S.	4	108	86	22	1,327.33
Windsor S.S.	2	44	44	....	736.10
Woodstock P.S.	1	18	18	....	389.89
York Township P.S.	4	97	97	....	1,328.02
No. 10 Scarboro P.S.	1	14	14	....	392.76
Totals	136	3,013	2,002	1,011	$20,082.73

Toronto General Hospital Polio Respirator Cases.

Centre	Number of teachers	Number of pupils	Boys	Girls	Grants
Toronto	1	7	4	3	$223.75

Oral, Lip-Reading, Hard-of-Hearing, and Speech-Correction Classes.

Centre	Number of teachers	Number of pupils	Boys	Girls	Grants
Hamilton	1	201	....	....	$175.00
Ottawa	1	9	....	....	572.82
Toronto	12	1,041	....	....	3,934.11
York Township	1	205	....	....	75.86
Totals	15	1,456	....	....	$4,757.79

Sight-Saving Classes.—For children whose sight prevents them from making satisfactory progress or whose eyes would be impaired by using ordinary textbooks.

Centre	Number of teachers	Number of pupils	Boys	Girls	Grants
Hamilton	1	15	8	7	$176.00
London	1	13	10	3	225.00
Ottawa	1	16	4	12	192.57
Toronto	5	72	52	20	881.50
Totals	8	116	74	42	$1,475.07

Open Air Classes.—For delicate, anaemic, or undernourished children. Classes are held in parks, or in classrooms with one side open to the sun and air.

Centre	Number of teachers	Number of pupils	Boys	Girls	Grants
Toronto P.S.	11	352	139	213	$1,058.45
Toronto S.S.	2	58	22	36	353.20
Totals	13	410	161	249	$1,411.65

Institutional Classes.—For inmates of children's homes, shelters, orphanages, etc.

Centre	Number of teachers	Number of pupils	Boys	Girls	Grants
Toronto	1	23	14	9	$41.38

Orthopedic and Visiting Teacher Classes.—For disabled children.

Centre	Number of teachers	Number of pupils	Boys	Girls	Grants
Fort William (Visiting teacher)	1	36	....	....	$503.77
Hamilton (Visiting teacher)	4	41	....	....	792.99
Kitchener P.S. (Visiting teacher)	1	11	....	....	500.00
Kitchener S.S. (Visiting teacher)	1	7	....	....	318.94
Ottawa (Orthopedic)	2	26	....	....	1,166.82
Toronto P.S. (Visiting teacher)	16	239	....	....	2,709.85
Toronto S.S. (Visiting teacher)	2	29	....	....	500.00
Toronto P.S. (Orthopedic)	5	70	....	....	3,738.10
York Township (Visiting teacher)	3	40	....	....	1,605.02
East York (Visiting teacher)	1	15	....	....	506.31
Totals	36	514	....	....	$12,341.80

Hospital and Sanatorium Classes.—For children in hospitals, sanatoria, wards, or homes for the incurable.

Centre	Number of teachers	Number of pupils	Boys	Girls	Grants
Brantford	1	18	8	10	$255.26
Hamilton	2	43	21	22	503.91
Kitchener	1	24	10	14	273.10
London	2	42	22	20	500.00
Toronto	7	225	85	140	1,687.80
Windsor	1	21	12	9	265.34
Totals	14	373	158	215	$3,485.41

Rural Opportunity Units.

Inspectorate	Number of teachers	Number of pupils	Boys	Girls	Grants
Bruce East, Grey (in part), Huron (in part)	15	31	20	11	$54.83
Bruce West	6	36	24	12	105.32
Carleton	1	2	....	2	18.00
Dundas and Grenville (in part)	33	86	58	28	45.87
Elgin East	33	88	68	20	97.22
Frontenac North and Addington (in part)	15	55	35	20	138.85
Glengarry (in part) and Prescott (in part)	7	24	15	9	45.71
Grey North and Bruce North	24	57	43	14	118.58
Halton	1	1	1	....	....
Hastings North	1	4	3	1	....
Huron East	1	2	2	....	....
Huron West	1	1	1	....	3.65
Kent (No. 1)	25	71	51	20	19.60
Kent (No. 2) and Elgin West	32	76	46	30	....
Lambton West (No. 1)	24	68	44	24	142.42
Lanark	4	25	20	5	122.70
Leeds and Grenville (No. 3) and Lanark (in part)	22	68	43	25	196.50
Lincoln (in part)	36	214	149	65	256.64
Northumberland and Durham (No. 2)	2	3	1	2	4.58
Ontario North and York (in part)	1	2	2	....	7.55
Oxford North	19	35	21	14	109.91

Inspectorate	Number of teachers	Number of pupils	Boys	Girls	Grants
Oxford South and Norfolk (in part)	1	1	1	....	$5.83
Peel (in part)	1	2	....	2	4.03
Perth North and Wellington (in part)	30	76	48	28	204.93
Prescott and Russell (No. 1) and Carleton	13	25	21	4	33.99
Prince Edward	14	54	39	15	9.05
Renfrew North	20	45	32	13	105.24
Renfrew South	1	2	2	....	13.19
Simcoe Centre	4	6	4	2	2.10
Simcoe East and Muskoka (in part)	13	32	22	10	89.87
Simcoe South, York (in part) and Peel (in part)	3	8	7	1	16.36
Waterloo (No. 1)	5	12	11	1	10.90
Wellington South	32	68	39	29	213.00
York (No. 6)	1	1	1	....	....
District Division V	2	6	2	4	5.94
District Division VI	24	87	53	34	253.89
District Division VIII	26	79	60	19	18.59
District Division IX	1	1	1	....	....
District Division XII (Part I)	1	1	1	....	6.77
District Division XIII	17	53	28	25	45.84
R. C. District Division X	28	69	51	18	167.35
R. C. District Division XII	2	8	6	2	22.54
R. C. District Division XV	35	86	56	30	....
R. C. District Division XXI	2	7	3	4	....
Totals	579	1,678	1,135	543	$2,717.34

Rural School Home-Instruction Units.—For crippled children who cannot attend school.

Inspectorate	Number of teachers	Number of pupils	Boys	Girls	Grants
Brant and Norfolk (in part)	2	2	2	....	....
Bruce West	1	1	....	1	$10.80
Durham (in part) and City of Oshawa	1	9	3	6	147.00
Elgin East and City of St. Thomas	5	13	7	6	361.75
Frontenac North and Addington (in part)	1	1	....	1	65.33
Grey South	1	1	....	1	....
Halton	3	3	1	2	99.30
Lambton West (No. 1)	2	4	3	1	142.65
Lanark	1	1	....	1	....
Leeds and Grenville (No. 2)	1	1	....	1	16.80
Middlesex	2	7	4	3	....
Norfolk (in part)	3	4	3	1	6.00
Oxford North and City of Woodstock	1	1	....	1	60.00
Peel (in part)	5	6	5	1	186.20
Perth South and City of Stratford	2	2	1	1	43.86
Prince Edward	1	1	1	....	....
Renfrew South	1	1	1	....	....
Simcoe Centre	1	1	1	....	72.00
Simcoe East and Muskoka (in part)	3	3	1	2	31.98
Simcoe South, York (in part), Peel (in part)	2	2	2	....	19.50
Simcoe West, Grey (in part), Dufferin (in part)	1	1	....	1	11.25
Waterloo (No. 2)	2	2	....	2	100.60
Waterloo (No. 3)	1	1	1	....	....

Inspectorate	Number of teachers	Number of pupils	Boys	Girls	Grants
Welland South	1	2	1	1	$49.80
Wellington North	1	1		1	14.25
Wentworth	1	1		1	
York (No. 1)	3	3	3		60.00
York (No. 2)	2	3		3	89.50
York (No. 5)	3	5	4	1	106.20
York (No. 6)	3	4	2	2	189.60
R. C. District Division V	1	1	1		
R. C. District Division XVI	2	2	1	1	
Totals	60	90	48	42	$1,884.37

Sight-Saving Units in Rural Areas.

Inspectorate	Number of teachers	Number of pupils	Boys	Girls	Grants
Brant	3	3	2	1	
Bruce	4	4	1	3	
Carleton	3	4	2	2	$10.75
Dundas and Grenville (in part)	4	4	2	2	1.75
Durham (in part)	1	1	1		
Elgin	3	3	3		
Essex (No. 1)	5	18	10	8	
Frontenac and Addington	5	5	5		
Grey North and Bruce North	3	3	2	1	
Hastings North and Renfrew	2	2	2		2.33
Huron East	1	1	1		
Kent (No. 2) and Elgin West	2	2	1	1	
Lambton West (No. 1)	3	3	2	1	3.69
Lambton West (No. 2)	4	4	2	2	
Leeds and Grenville (No. 2)	2	2	1	1	
Leeds and Grenville (No. 3)	4	4	1	3	.65
Lincoln	2	2	1	1	
Middlesex East and Elgin	1	2	1	1	
Norfolk	1	1	1		
Northumberland and Durham (No. 1)	1	1	1		
Ontario	1	1		1	
Oxford North	2	2	1	1	
Oxford South	1	1		1	
Peel	1	1	1		
Prescott and Russell (No. 1) and Carleton	1	1	1		
Prince Edward	1	1	1		2.20
Simcoe East and Muskoka	5	5	4	1	
Simcoe Centre	1	2	2		
Simcoe South	1	1		1	
Stormont	3	5	2	3	3.70
Waterloo (No. 1)	10	10	7	3	7.31
Welland	8	11	8	3	3.27
Wellington North	2	2	1	1	
Wellington South	1	1		1	2.82
York (No. 1)	1	1	1		
York (No. 3)	8	8	3	5	
York (No. 4)	3	3	3		
York (No. 5)	5	12	7	5	11.50
York (No. 6)	2	3	2	1	7.18
District Division I	2	5	3	2	3.55
District Division III	1	1		1	1.75
District Division V	1	1		1	
District Division VI	2	2	2		2.05
District Division IX	2	5	2	3	

Inspectorate	Number of teachers	Number of pupils	Boys	Girls	Grants
District Division X	1	1		1	
District Division XIII	1	1		1	
District Division XV	2	2	1	1	
R. C. District Division II	1	1	1		
R. C. District Division III	2	2	1	1	
R. C. District Division V	1	1	1		
R. C. District Division VI	1	4	3	1	
R. C. District Division X	3	3	2	1	$14.41
R. C. District Division XIII	3	4	1	3	
R. C. District Division XIV	3	5	5		
R. C. District Division XV	3	3	1	2	
R. C. District Division XVI	2	2	1	1	2.00
Totals	142	183	110	73	$80.91

Urban Organization

In addition to the classes mentioned above the following new Auxiliary Classes were opened during the latter half of 1938:

Opportunity Classes.—Kirkland Lake, 1; Toronto Separate Schools, 1; S.S. No. 7 Toronto, 1; Wallaceburg, 1.

Handicraft Classes.—Stratford, 1; Ottawa Separate Schools, 1.

Speech and Lip-Reading.—Kitchener, 1.

Visiting Teacher.—Port Arthur, 1; Windsor, 1; York Township, 1.

During the year, Almonte, Cornwall, Hespeler, Port Hope, S.S. No. 7 Toronto, and Wallaceburg Separate Schools were surveyed for purposes of Auxiliary Education. With few exceptions one or several forms of auxiliary education have been established in urban centres of over 3,000 population. In the majority of these centres it is felt that all children requiring special education on account of physical or mental handicaps are being fully looked after. In several centres, however, existing facilities require extension, and, in some cases, provision has yet to be made for the education of children suffering from certain types of handicap.

Rural Organization

Complete surveys of the following rural inspectorates were carried out by Miss DeLaporte and myself in conjunction with the Inspectors concerned:

Inspectorate	Inspector	Number of Cases
Bruce West	G. C. Dobson	97
Middlesex East	D. G. Smith	128
Simcoe Centre (partial survey)	W. R. McVittie	32
Simcoe South	W. H. Carlton	186
Waterloo (No. 1)	H. E. Elborn	92
Wellington South	G. G. McNab	74
Division V	D. T. Walkom	92
Division VI	L. L. Skuce	166
Division XVI	A. F. Brown	143
S. S. Division XII	L. J. Langan	136

In all, some 1,146 pupils were examined and advisements made concerning their educational welfare. Through the co-operation of the local Inspector and the several school boards, special educational facilities have been provided for the large majority of those who were found to stand in need of assistance.

Up to the present time thirty-one rural inspectorates have been completely and one partially surveyed and organized. There are in operation 90 home instruction units, 183 sight-saving units, 213 speech-correction units, and 1,918 opportunity units. Some 120 sick or crippled children in rural areas who cannot attend school are being looked after by means of correspondence courses. Between 80 per cent. and 90 per cent. of the children who were afflicted through the Polio epidemic of 1937 have now returned to school, their educational progress having suffered but slight interruption during their lengthy periods of convalescence. Though the number of home-instruction units and correspondence courses for crippled children has, as a result, fallen off, it is interesting to note that efforts made in 1937 to provide for Polio cases have been the means of attracting attention to the needs of pupils suffering from other forms of illness. In March, 1938, the Department co-operated with the Toronto Board of Education to provide instruction for seven adults in the General Hospital who were still confined in the Polio Respirators. Three of these have completely recovered but four are still in receipt of special teaching. It is felt by the hospital authorities that the visiting teacher was a decisive factor in maintaining intact the mental integrity of these patients during their long struggles toward recovery.

Reports from local Inspectors concerned go to show that upwards of 50 per cent. of the pupils in opportunity units are re-adjusted to grade work; that the establishment of sight-saving units enables pupils suffering from defective vision to maintain normal grade progress, and that the provision of a home-instruction teacher for sick and crippled children has equally beneficial results.

Through the establishment of speech-correction units the attention of rural teachers has been directed to the importance of this phase of education, with the result that care is being devoted to the building up of proper speech habits among regular grade pupils as well as among those affected by speech defects.

Arrangements have been completed for surveying the following rural inspectorates in 1939.

Inspectorate	Inspector
Dufferin and Peel (in part)	A. F. Hansuld
Essex (No. 2) and Kent (in part)	W. L. Bowden
Grey South	G. E. Pentland
Huron West	E. C. Beacom
Lambton (No. 2)	J. J. Edwards
Oxford South and Norfolk (in part)	J. W. Hagan
Peterborough East	L. W. Copp
Peterborough West and Victoria East	R. F. Downey
Renfrew South	C. W. Lees
Welland (in part), Lincoln (in part)	W. A. Marshall
Wellington North	L. P. Menzies
District Division VII (1)	O. M. MacKillop
District Division XIV	J. L. Moore
R. C. District Division VI	T. S. Melady

It is expected that by the end of the year 1939 one-half of rural Ontario will have been surveyed, and provision made for children needing special help. In this connection it is heartening to note that Inspectors whose areas have already been surveyed are keeping up the good work by testing incoming pupils and advising for those requiring consideration.

SUMMARY—*Urban and Rural Organization.*

	Number of Children	
I. Physically Handicapped		
1. Schools for the Blind and Deaf	468	
2. Urban Organization	2,832	
3. Rural Organization	487	
		3,787
II. Mentally Handicapped		
1. Urban Organization	6,036	
2. Rural Organization	1,918	
		7,954
		11,741

The New Courses of Study

In making surveys throughout both urban and rural areas in the province, the beneficial effects of the New Courses of Study on the educational welfare of both handicapped and normal children have been noted with interest. There is undoubtedly a new enthusiasm for school which is more particularly apparent among backward adolescents and pupils who were formerly problem cases. Much of this enthusiasm is due to the activity programme recently introduced. Pupils who are not word-minded find that they can compete on equal terms with their fellows when they are given an opportunity to express their ideas in sand-table pictures, mural decorations, and the construction of models. Ability in reading and eagerness for books, especially among adolescent pupils, are other benefits which feature the introduction of the new programme. It is noted, however, that the intelligence tests given this year record an unusual number of fantastic reproductions of the drawing test (year ten) and jumbled responses to the number-repeating tests of years seven and ten. A high correlation was found to exist between such fantastic responses and the over-promotion of pupils on the basis of age rather than achievement. Since such fantastic responses usually indicate a state of chronic or temporary mental confusion, one is forced to the conclusion that in an attempt to avoid the formation of an inferiority complex through forcing pupils to repeat grades, the sympathetically minded teacher who promotes all pupils annually irregardless of their academic fitness may be pursuing a course dangerous to the mental integrity of some of her pupils. The boy who repeats a grade is at least pursuing a course more or less within the measure of his ability, while a pupil who is seriously over-promoted finds himself frustrated and defeated in the great majority of his attempts. This is more particularly true where backwardness has as its basis an inability to read.

Publications

The Special Class Teacher, a magazine devoted to the interest of special education, and published by the Auxiliary Class Section of the O. E. A., has doubled its subscription list within the last three years. Its efficient and progressive staff turns out a periodical whose general articles on various phases of special education are nicely balanced by a wealth of practical suggestions from teachers engaged in actual field work.

Life and Literature, Book II, the reader for Grade VIII, was reproduced this year in 24 point type by the publishers, W. J. Gage and Co. The book is published in three volumes, printed on sight-saving paper and bound with wire-o binding which permits the book to be turned back when in use. It is hoped that the Grade VII reader may be enlarged in the same way during 1939.

Through experiments conducted by Miss Helen DeLaporte, Assistant Inspector of Auxiliary Classes, there was established the value of a six-inch semi-cylindrical magnifying glass, known as the "Ezyrede", for pupils who are partially handicapped as to eye-sight. The glass enables such pupils to consult the dictionary, to read arithmetic questions, and to make other brief use of printed matter in relatively small type. With the concurrence of the physician concerned, this magnifier is approved as equipment in sight-saving classes and units.

Organization

All teachers of Auxiliary Classes are especially trained in a five weeks' summer course. In 1938 a tri-part course was given: I and II for teachers having at least an Interim Second Class certificate and two years' successful teaching experience in the province who wished to qualify as teachers of (1) Opportunity and Handicraft Classes, (2) Speech, Sight-Saving, Home-Instruction and Hospital Classes; (III), a general course for teachers who wished to improve their professional standing. One hundred and one took the first course, 41 the second and 32 the third.

Brief courses were given in each of the eight provincial Normal Schools to acquaint teachers-in-training with methods of dealing with auxiliary-type pupils, especially in rural schools. The many inquiries received by the Department from recently graduated teachers concerning the educational welfare of exceptional children in their charge is evidence of interest aroused by these Normal School talks.

Through the co-operation extended by their respective school boards, a great many special class teachers throughout the Province took advantage of the proximity of the meeting of the Council for Exceptional Children in Buffalo this year. The teachers from Ontario gained a great many practical ideas from their visits in the special classes of that city and renewed their enthusiasm through conferences with many of the leading educators in the neighbouring republic.

H. E. Amoss,
Inspector of Auxiliary Classes.

Toronto, February 28th, 1939.

APPENDIX H

REPORT OF THE DIRECTOR OF SCHOOL ATTENDANCE

The old saying that all men are born free and equal is true only to a certain extent. 'Tis true that, in this country, all are freeborn, but all are not as fortunate in other ways. All are not endowed with the same mental ability; all have not the same advantages of environment and lineage; and all, as they develop, are not given the same care and attention. The state endeavours to do its part by providing the best facilities for the development of the child and by making it compulsory that he should attend until he is sixteen years of age.

During the academic year just closed (1937-38), there was an increase in the number of our elementary schools, the total being 7,286 composed of 6,452 Public and 834 Separate Schools. In the preceding year the corresponding figures were 6,347 and 812. The incoming year will show another increase in spite of the fact that many of the smaller schools were closed and the pupils transported to other schools, much to their advantage.

Enrolment

Table No. 1

	1935-36	1936-37	1937-38	Increase or Decrease over 1936-37
Public Schools	460,785	455,365	454,509	856 decr.
Separate Schools	101,152	100,348	102,505	2,157 incr.
High Schools and Collegiate Institutes	67,899	67,088	68,700	612 incr.
Continuation Schools	9,464	8,996	9,251	255 incr.
Vocational and Special Industrial Schools—				
Day Classes	35,418	36,256	37,748	1,492 incr.
Night Classes	24,360	25,930	32,083	6,153 incr.
	699,078	693,983	704,796	10,813 incr.

The enrolment for the elementary and secondary schools in Ontario increased 10,813 and the Separate Schools 2,157 during the year, but the enrolment in the Public schools showed a decrease of 856.

Checking Attendance

At the present time there have been appointed by various bodies 1496 attendance officers, 450 in the urban centres, 887 in the county rural sections, and 159 in the unorganized destricts. It is the duty of these officers to investigate undue absence of pupils and to take such action as they may deem advisable to have the pupils returned to school at the earliest possible opportunity. The School Attendance Act and the Adolescent School Attendance Act give them authority to summon the parents before a magistrate but this is done only when other efforts have proved unsuccessful. The Welfare Department, in cases of privation, and the Children's Aid, in cases of neglect, have been of great assistance in relieving difficulties. Big Brothers and Big Sisters, Service Clubs, Church societies, Women's groups, Neighbourhood Workers, Home Visitors, and other benevolent and charitable organizations have at various times lent a helping hand.

Table No. 2

(Showing percentage attendance since 1934-35)

Class of School	1934-35	1935-36	1936-37	1937-38	Increase in % over 1936-37
City Schools	91.70	91.87	92.49	92.96	.47
Town Schools	92.77	91.62	92.67	93.08	.41
Village Schools	91.57	91.39	91.83	91.95	.12
County Rural Schools	89.29	88.17	87.65	88.77	1.12
District Rural Schools	87.33	86.29	87.22	86.85	.37 decr.
All Urban Schools	91.94	91.64	92.49	92.92	.43
All Rural Schools	88.97	87.85	89.34	89.13	.21 decr.
All Elementary Schools	90.83	90.27	90.91	91.51	.60

School Leaders in Attendance

In 1935-36	Per Cent.	In 1936-37	Per Cent.	In 1937-38	Per Cent.
City of Galt	95.34	City of Galt	96.10	City of Galt	95.69
Town of Chelmsford	96.85	Town of Palmerston	96.22	Town of Elmira	97.41
Village of Port Perry	96.51	Village of Port Perry	96.98	Village of Mildmay	96.28
County of Waterloo	93.41	County of Waterloo	93.54	County of Waterloo	93.46
District of Nipissing	89.17	District of Algoma	89.04	District of Kenora	89.36

The City of Galt has the distinction of having led the urban centres, and Waterloo the Counties of the Province, in percentage attendance for the past three years—an enviable record.

Public School Attendance

Table No. 3

	1936-37		Days Lost per Pupil	1937-38		Days Lost per Pupil
	Ave. Att.	% Att.		Ave. Att.	% Att.	
Rural	160,473	89.16	19.98	159,092	88.96	20.09
Urban	246,483	92.28	14.92	245,790	92.74	13.82

Separate School Attendance

Table No. 4

	1936-37		Days Lost per Pupil	1937-38		Days Lost per Pupil
	Ave. Att.	% Att.		Ave. Att.	% Att.	
Rural	20,864	90.72	17.46	20,690	90.43	18.31
Urban	71,310	93.51	12.21	73,670	93.52	10.90

Totals—Table No. 5

	1936-37		Days Lost per Pupil	1937-38		Days Lost per Pupil
	Ave. Att.	% Att.		Ave. Att.	% Att.	
Rural	181,337	89.34	19.70	179,782	89.13	19.89
Urban	317,793	92.55	14.32	319,460	92.92	13.16

All Elementary Schools

Table No. 6

	1936-37		Days Lost per Pupil	1937-38		Days Lost per Pupil
	Ave. Att.	% Att.		Ave. Att.	% Att.	
Public..........	406,956	91.05	16.98	404,882	91.22	16.39
Separate........	92,174	92.87	13.42	94,360	92.80	12.60

The percentage attendance for all elementary schools for 1937-1938 was 91.51 and the average loss per pupil was 15.70 days.

Losses in the Elementary Schools

Table No. 7

Days lost through	1937-38	Percentage Loss			
		1934-35	1935-36	1936-37	1937-38
1. Illness..................	5,449,834	66.09	62.96	65.41	62.39
2. Home Help...............	865,606	8.48	7.67	9.11	9.91
3. Parental Neglect..........	606,879	5.48	5.10	5.92	6.95
4. Physical Obstacles........	332,034	2.63	4.39	2.62	3.81
5. Truancy..................	28,205	.27	.24	.28	.32
6. Privation.................	90,752	.98	.95	1.04	1.04
7. Irregular Closing..........	510,943	3.44	6.96	4.56	5.85
8. Other Reasons............	850,340	12.63	11.73	11.05	9.73
Total days lost		9,728,239	10,248,309	9,083,567	8,734,593
The above losses are classified—					
Lawful		7,457,039	7,790,825	6,845,284	6,329,014
Unlawful		2,271,200	2,457,484	2,238,283	2,405,579
Percentage attendance		90.83	90.27	90.91	91.51

From the above figures it will be seen that there has been a steady decline in losses due to illness. Curiosity has led us to investigate this loss to a greater degree and while there are no statistics available showing just what these various illnesses were, yet statistics from other sources where conditions are, on the whole, quite similar, show that about 50 per cent. are due to respiratory diseases, colds, sore throat, and similar ailments; about 20 per cent. due to more prolonged diseases such as measles, mumps, whooping cough, scarlet fever, and chicken pox; 5 per cent. due to digestive disorders; 5 per cent. to headaches; and 5 per cent. due to toothaches and affections of the eyes and ears. The remainder of the absences is due to accidents and miscellaneous ailments, many of them related to or growing out of the above disorders.

With better ventilation in schools, with better care of the clothing of children, and by adequate isolation of pupils with respiratory disorders, these ailments could be considerably reduced. By vaccination and by examination on the part of the teacher and exclusion of suspects, the "common" communicable diseases (other than respiratory) would become less common. With good hygiene for which the school is now more responsible, there is hardly an excuse for digestive disorders and real headaches, while with adequate medical and dental supervision, toothache and eye troubles should almost disappear. With such prevention, illness from miscellaneous causes should diminish. On the whole, the amount of sickness would be reduced, retardation losses lowered, physical standards raised, and a better foundation laid to resist the ills and diseases of the adult.

Losses due to Home Help and Parental Neglect are apparently growing, but on the other hand, the increase in these losses may be due to a more careful classification, thus partly explaining the decrease in "Other Reasons". Weather conditions are shown in the increase in the Physical Obstacles losses and partly in the Irregular Closing losses. Some Boards have not yet realized that they have no power to close a school and that every day a school is irregularly closed means a reduction in the grant. Schools are sometimes closed for funerals because that has been the custom in those particular sections, although the deceased may never have taken an active interest in the community at all. Schools are sometimes not opened on time because of the tardiness of the Board in making necessary repairs or engaging a teacher. They are sometimes closed a day early or opened a day late to give the teacher a little longer holiday. All such losses could and should be avoided.

Secondary Schools

The number of Secondary Schools remains the same: Collegiates, 70; High Schools, 156; Continuation Schools, 206; Vocational Schools, 59; and Special Industrial, 5. Total, 496.

Table No. 8

Schools	Enrolment				Per Cent. Attend.	
	1936-37		1937-38		1936-37	1937-38
High Schools and Collegiates		67,088		68,700	94.28	95.72
Continuation Schools		8,996		9,251	91.94	93.42
Vocational and Special Industrial Schools						
Day	36,256		37,748		*92.79	*93.34
Night	25,930		32,083			
		62,186		69,831		
		138,270		147,782		

*Day Schools only.

Table No. 8 shows an increase in Secondary School enrolment of 9,512. The percentage attendance has reached the high mark of 94.79.

While the vast majority of the children in Ontario are in regular attendance, yet there are some who are not so fortunate—some who live a long distance from school, as is the case with some pioneer families in the ever-extending northland; some who are handicapped through the physical infirmities of blindness and deaf-mutism, as well as natural constitutional weaknesses and the ravages due to poliomyelitis; some who through prolonged illnesses are confined to hospitals and sanatoria; some who are less mentally endowed. Such special cases are, however, being cared for in various ways. The world of to-morrow will be built by the children of to-day, and every child should be equipped in the best possible manner that he may play his part to the best of his ability in the not far distant future.

R. D. Keefe,
Director of School Attendance.

Toronto, July 10th, 1939.

APPENDIX I

REPORT OF THE SUPERINTENDENT OF THE ONTARIO SCHOOL FOR THE DEAF

I have the honour to submit the Annual Report of the Ontario School for the Deaf for the year ending March 31st, 1939.

Attendance

Enrolment by months:—

	Boys	Girls	Total
April, 1938	142	140	282
May	142	140	282
June	142	140	282
September	145	141	286
October	146	146	292
November	149	147	296
December	149	147	296
January, 1939	154	151	305
February	152	151	303
March	152	152	304

Average attendance for the year—293.

Enrolment by counties and districts:—

Algoma	10 pupils
Brant	6 "
Bruce	4 "
Carleton	15 "
Cochrane	4 "
Dufferin	1 pupil
Dundas	3 pupils
Durham	2 "
Elgin	1 pupil
Essex	26 pupils
Frontenac	7 "
Glengarry	1 pupil
Grenville	1 "
Grey	2 pupils
Haldimand	3 "
Halton	3 "
Hastings	10 "
Huron	3 "
Kenora	3 "
Kent	7 "
Lambton	1 pupil
Lanark	6 pupils
Leeds	6 "
Lincoln	2 "
Middlesex	10 "
Muskoka	3 pupils
Nipissing	5 "
Norfolk	2 "
Northumberland	2 "
Ontario	4 "
Oxford	7 "
Parry Sound	6 "
Peel	1 pupil
Perth	4 pupils
Peterborough	3 "
Prescott	1 pupil
Rainy River	4 pupils
Renfrew	7 "
Russell	1 pupil
Simcoe	6 pupils
Stormont	1 pupil
Sudbury	13 pupils
Thunder Bay	9 "
Timiskaming	18 "
Victoria	1 pupil
Waterloo	12 pupils
Welland	9 "
Wellington	5 "
Wentworth	15 "
York	59 "

Enrolment by cities:— (These pupils are also included in the enrolment by counties and districts).

Brantford	5 pupils
Fort William	4 "
Hamilton	11 "
Kingston	4 "
Kitchener	7 "
London	9 "
Ottawa	10 "
Peterborough	2 pupils
St. Catharines	1 pupil
Port Arthur	3 pupils
Sault Ste. Marie	6 "
Toronto	39 "
Windsor	13 "

Twenty-six pupils left school during the year, and forty-six new pupils were admitted.

The ages of pupils leaving school were:—

21 years	0 pupils	15 years	2 pupils
20 "	2 "	14 "	2 "
19 "	5 "	13 "	3 "
18 "	4 "	12 "	1 pupil
17 "	4 "	10 "	1 "
16 "	1 pupil	6 "	1 "

Eight of the ten pupils under sixteen years of age, who left school during the year, are not attending any school, but may return to this school again next year.

Ages of new pupils on date of admission:—

4 years	1 pupil	12 years	0 pupils
5 "	6 pupils	13 "	2 "
6 "	4 "	14 "	3 "
7 "	9 "	15 "	3 "
8 "	5 "	16 "	3 "
9 "	0 "	17 "	1 pupil
10 "	1 pupil	18 "	0 pupils
11 "	7 pupils	19 "	2 "

Only seven of the new pupils over eight years of age had not attended any school before being admitted to the Ontario School for the Deaf. Two of these, who were nineteen years of age on admission, had no knowledge whatever of spoken or written English.

All applicants for admission were tested by means of the Ontario School Ability Examination. As a result of these tests eleven children were refused admission and the date of entrance of thirteen others was postponed for at least one year.

Excerpts from Inspector's Report

The following excerpts are taken from the report of Dr. H. E. Amoss, Inspector of Auxiliary Classes, after his annual inspection of the school:—

The boys', girls', and the junior residences are being well looked after. The sitting rooms in both the senior boys' and senior girls' residences are being improved through the addition of a number of comfortable chairs made in the furniture shop. These chairs are a credit to the vocational plant and will do much to make the barren quarters more attractive and home-like.

As noted in the 1938 report, consideration must be given in the near future to the construction of a new vocational building and gymnasium to replace the two ancient vocational buildings now in use and to provide much needed gymnasium facilities, especially during the Autumn and Spring between seasons.

It is understood that the construction of a new heating plant is being contemplated.

The various duties of the service staff are being carried out efficiently. The school plant is clean, tidy, and in a good state of repair. The children are being well cared for and there is every evidence of harmonious co-operation.

A picture of the student body is given in the following age-grade and attendance-grade tables in which connection it is noted:

1. Compared with the report of 1937-38:—

(a) There is an increased attendance of 22. This increase is largely to be found in the intermediate and senior schools.

(b) The mean age of pupils in the Junior First Preparatory forms has lowered from 8 years 3 months to 7 years 5 months. The earlier age of entry has resulted from the earnest effort of the Superintendent to get in contact with candidates throughout the Province; the rural surveys being conducted by the Auxiliary Branch; the heightened reputation of the school as an institution; the co-operation being extended by the adult deaf and the hard-of-hearing; the better placement

AGE-GRADE TABLE—September, 1938

	4 yrs.– 5 yrs.	5 yrs.– 6 yrs.	6 yrs.– 7 yrs.	7 yrs.– 8 yrs.	8 yrs.– 9 yrs.	9 yrs.–10 yrs.	10 yrs.–11 yrs.	11 yrs.–12 yrs.	12 yrs.–13 yrs.	13 yrs.–14 yrs.	14 yrs.–15 yrs.	15 yrs.–16 yrs.	16 yrs.–17 yrs.	17 yrs.–18 yrs.	18 yrs.–19 yrs.	19 yrs.–20 yrs.	20 yrs.–21 yrs.	21 yrs.–22 yrs.	Medial Age	Totals	TOTAL
Junior School																			yrs mos		
I, Preparatory......	1	5	10	14	8	3	3	3	...	...	...	...	...	...	...	...	...	...	7–5	47	....
II, Preparatory.....	...	...	1	10	9	6	7	2	...	...	...	...	...	...	...	...	...	...	8–10	35	....
III, Preparatory.....	...	...	...	1	6	7	14	6	1	...	...	...	...	...	...	...	...	...	10–2	35	....
IV, Grade I.........	...	...	...	...	...	2	6	3	1	...	...	...	...	...	...	...	...	...	10–10	12	129
Intermediate School																					
A1, Grade II........	...	...	...	...	...	...	1	5	3	1	...	1	...	...	...	...	...	...	12–5	11	....
V1, " "........	...	...	...	...	...	...	...	6	1	2	3	1	...	...	...	...	...	...	12–8	13	....
A2, Grade III.......	...	...	...	...	...	...	5	7	...	...	...	...	...	...	...	...	...	...	11–2	12	....
V2, " ".......	...	...	...	...	...	...	...	...	6	4	1	1	...	...	...	...	...	...	12–11	12	....
A3, Grade IV.......	...	...	...	...	...	...	1	4	6	3	...	...	...	...	...	...	...	...	12–3	14	....
V3, " ".......	...	...	...	...	...	...	...	4	3	2	1	...	...	...	...	...	...	...	12–6	10	....
A4, Grade V........	...	...	...	...	...	...	...	...	4	3	3	2	...	...	...	...	...	...	13–7	12	....
V4, " "........	...	...	...	...	...	...	1	...	5	1	...	...	...	...	...	...	...	...	12–5	7	91
Senior School																					
A1, Grade VI.......	...	...	...	...	...	...	...	...	...	1	5	6	1	1	...	...	...	...	15–3	14	....
V1, " ".......	...	...	...	...	...	...	...	...	...	...	8	1	...	1	...	...	...	...	14–9	10	....
A2, Grade VII......	...	...	...	...	...	...	...	...	...	...	1	6	4	...	...	...	...	...	15–10	11	....
V2, " "......	...	...	...	...	...	...	...	...	...	...	...	2	1	2	2	2	...	...	17–5	9	....
A3, Grade VIII.....	...	...	...	...	...	...	...	...	...	...	...	2	3	4	2	1	...	...	17–3	12	....
V3, " ".....	...	...	...	...	...	...	...	...	...	...	1	4	4	2	2	...	1	...	16–8	14	....
A4, Grade IX.......	...	...	...	...	...	...	...	...	...	...	1	...	1	2	...	1	...	...	17–5	5	....
V4, " ".......	...	...	...	...	...	...	...	...	...	...	...	...	5	5	...	...	...	...	17–0	10	85
Totals..........	1	5	11	25	23	18	38	40	30	17	24	26	19	17	6	4	1	...	11–10	305	305

ATTENDANCE-GRADE TABLE, 1938

	0 yrs.– 1 yr.	1 yr.– 2 yrs.	2 yrs.– 3 yrs.	3 yrs.– 4 yrs.	4 yrs.– 5 yrs.	5 yrs.– 6 yrs.	6 yrs.– 7 yrs.	7 yrs.– 8 yrs.	8 yrs.– 9 yrs.	9 yrs.–10 yrs.	10 yrs.–11 yrs.	11 yrs.–12 yrs.	Totals	TOTAL
Junior School														
I Preparatory..........	27	15	3	2	.....	.....	.....	.....	.....	.....	.....	.....	47	.....
II Preparatory.........	.....	5	18	10	1	1	.....	.....	.....	.....	.....	.....	35	.....
III Preparatory........	1	5	6	17	3	2	1	.....	.....	.....	.....	.....	35	.....
IV Preparatory.........	.....	.....	1	5	5	1	.....	.....	.....	.....	.....	.....	12	129
Intermediate School														
A1, Grade II..........	1	1	.....	4	3	2	.....	.....	.....	.....	.....	.....	11	.....
V1, " "...........	2	1	3	4	.....	.....	3	.....	.....	.....	.....	.....	13	.....
A2, Grade III.........	.....	.....	.....	.....	1	9	2	.....	.....	.....	.....	.....	12	.....
V2, " ".........	5	.....	1	1	1	1	2	1	.....	.....	.....	.....	12	.....
A3, Grade IV..........	.....	1	.....	1	2	4	4	2	.....	.....	.....	.....	14	.....
V3, " ".........	.....	.....	1	1	.....	3	4	1	.....	.....	.....	.....	10	.....
A4, Grade V...........	.....	1	.....	.....	.....	1	1	6	2	1	.....	.....	12	.....
V4, " ".........	1	.....	.....	.....	.....	2	1	3	.....	.....	.....	.....	7	91
Senior School														
A1, Grade VI..........	3	.....	.....	.....	.....	1	2	4	3	.....	1	.....	14	.....
V1, " ".........	.....	.....	3	3	.....	.....	2	1	1	.....	.....	.....	10	.....
A2, Grade VII.........	4	.....	.....	.....	.....	.....	.....	3	1	1	2	.....	11	.....
V2, " ".........	2	.....	1	.....	2	1	1	2	.....	.....	.....	.....	9	.....
A3, Grade VIII........	.....	1	2	.....	1	.....	.....	1	3	1	1	2	12	.....
V3, " ".........	.....	.....	.....	1	3	.....	2	2	1	1	3	1	14	.....
A4, Grade IX..........	1	.....	1	.....	.....	.....	.....	.....	1	1	1	.....	5	.....
V4, " ".........	.....	.....	.....	.....	.....	.....	.....	2	1	3	2	2	10	85
Totals............	47	30	40	49	22	28	25	28	13	8	10	5	.....	305

of graduates which may in part be attributed to the introduction of a vocational guidance course and in part to the earlier age of graduation; the success which has attended the introduction and use of oral methods of instruction; and the widening interest which is being displayed throughout the Province in the welfare and well-being of the deaf.

(c) The mean age of the entire intermediate school has been reduced from 13 years 0 months to 12 years 6 months and this in spite of the fact that attainments in reading and arithmetic throughout the school are decidedly ahead of those in 1937-38. It is to be noted that the mean age throughout the intermediate and senior schools has been reduced almost three years since September, 1934.

(d) That the use of the Ontario School Ability Examination as a test of eligibility preparatory to acceptance for admission has been the means of eliminating the unhappy procedure of accepting pupils for entrance and returning them home as unsuitable. Some eleven children this year were refused entrance as being temporarily or permanently unable to make school progress. The school accepts all candidates not unsuitable from a physical or mental hygiene standpoint who are above five years mentally and who have an I.Q. above 50. Several pupils in a Junior II Class who are borderline cases and who have been given fair trial over periods of from one to five years might well be permanently graduated next June as being incapable of further training.

(e) Deaf children enter the school not only without language but without conception of language as a vehicle of communication or as a means of carrying on thinking. Three years (preparatory) are devoted to the inculcation of an art possessed by every hearing child on his entrance to a public school.

(f) Children who enter school late in life or children whose cerebral language areas are undeveloped from any cause, do not absorb language readily either as speaking, reading or thinking. Such pupils pass up through the intermediate and senior school as V classes in order that by annual promotions they may remain in contact with their age groups and receive normal training in mathematical, social and vocational departments. The A classes comprise pupils whose language facilities are comparable with those of hearing pupils of similar school grades.

(g) The teaching of language throughout the school, but especially in the Junior Department, has improved greatly during the past four years as evidenced by the earlier age at which pupils begin to read, the superior use of English in letter-writing and composition, and the astonishing growth of a desire to read for the pleasure of reading. This improvement would seem attributable to: (1) a wider use of the synthetic (practice) method in contradistinction with the old analytic method; (2) a more extended and systematic use of hearing aids; (3) provision of libraries in the residences and of a newspaper reading room in the school; (4) the segregation of juniors in the junior residence and the consequent delay in their acquisition of the sign language; (5) the compilation of pictorial dictionaries in the fourth year junior schoolrooms.

The Teaching Staff

Misses V. Sheffield and N. Tett resigned in June to be married. By transferring Mr. Cunningham from the department of physical education to the senior adademic school, Miss Harris and Mr. Hodgson were appointed to fill the vacant positions.

Miss C. Connell, who had been matron of the girls' residence and director of girls' physical education for two years, resigned in June and was succeeded by Miss Maloney who had had a very wide experience in teaching.

Owing to the appointment of Miss G. Conover to the staff of the Toronto Normal School in October, Miss H. Waite was appointed as teacher of the senior sewing classes. Miss Waite had had a varied experience in practical sewing.

The increased attendance made necessary the appointment of an extra teacher and Miss M. Hill was engaged, her duties beginning on January 3rd, 1939.

The five new teachers were carefully selected for their gifts to teach handicapped children. They are taking the new Normal Training Course for Teachers of the Deaf and all have made a successful beginning in their classrooms.

Pasteurized Milk

With the introduction of the new law requiring that all milk sold in Ontario must be pasteurized, all milk produced on the school farm has been collected in the morning by a local dairyman, pasteurized, and returned to the school by noon. While all milk produced is from a T. B. tested herd of pure Ayrshire cows the additional protection afforded by pasteurizing the milk is greatly appreciated.

Exhibit at Canadian National Exhibition

A display of pupils' work and a demonstration of vocational work were presented at the Canadian National Exhibition in Toronto in 1938.

The purpose of the exhibit was to demonstrate to the public the capabilities of the deaf in handling machinery in the hope that our boys and girls will have less difficulty in finding jobs after they leave school.

The exhibit under the direction of Mr. R. H. Vaughan was very successful and we express our appreciation to the A. R. Williams Machinery Company, the Singer Sewing Machine Company, and the Canadian National Exhibition Board for making this exhibit possible. Deaf boys and girls worked on machines for several hours each day of the Exhibition.

The School Calendar

All activities of the School are recorded in the school paper, *The Canadian.* The following calendar of events taken from its files are indicative of the broad and practical training the pupils receive:—

April 29th—A concert was presented in the auditorium of the Belleville Collegiate Institute. The following excerpts are taken from the report of the concert in the *Ontario-Intelligencer* of Belleville:

> Perfect in its staging, performance and finish, the Concert given Friday evening, April 29th, by the students of the Ontario School for the Deaf won the whole-hearted admiration of a large audience in the Collegiate auditorium when one hundred and fifty children took part in dancing, dramatics, music and gymnastic display. Spectators had to re-assure themselves again and again that the little ones were really deaf, that their only response to music was through vibrations in the floor, for the presentation of the numbers was flawless.
>
> The exhibition, however, was not merely a specially executed programme; it was more of a demonstration of the actual educational work carried out daily at the school where the development of the healthy child is aided through instruction in music, dancing and athletics.
>
> The Toy Shop was the stellar presentation of the evening and introduced the audience to the most charming wares any toy shop could boast of.

May 5, 1938—School concert at Trenton.

May 19th—Annual boys' banquet and sports' night in assembly room. This banquet marks the culmination of the recreational programme of the entire year.

May 26th—Annual banquet of girls' athletic association and girl guides. Guests included Mrs. L. Riggs, Divisional Commissioner, Girl Guides; Mrs. Durley, District Captain; and a number of other officials of the girl guides.

June 8th—Exhibition of pupils' work from the vocational classes; Open House for visitors.

June 10th—Closing Exercises, presentation of certificates and diplomas.

June 18th to 22nd—Twenty-fourth Biennial Convention of the Ontario Association of the Deaf, held at O. S. D.

June 27th to July 1st—The Superintendent, the Directress of Professional Training and four teachers attended the 1938 Summer meeting of the American Association to Promote the Teaching of Speech to the Deaf, held in the Detroit Day School. Miss Ford read a paper on the topic "Language for the Slow Child."

October 17th—Mrs. Nellie McClung visited the school and addressed the teaching staff. An article by Mrs. McClung written later for the Toronto *Telegram* and other papers was very complimentary.

October 29th—Annual Hallowe'en Party for seniors.

November 5th—Annual Hallowe'en Party for intermediates.

November 7th—Visit of the Honourable L. J. Simpson, M.D., Minister of Education. During the day Dr. and Mrs. Simpson visited the school and observed the work being done by the pupils in the classrooms and shops. In the afternoon the Minister addressed the teachers and in the evening was guest of the Belleville Board of Education at a complimentary banquet.

December 7th—Fourth Annual Christmas Bazaar.

December 27th—Christmas Pageant in auditorium of school.

February 11, 1939—Ice Carnival.

Bursar's Report

Cost per Pupil, School for the Deaf, Year ending March 31, 1939

Heading of Expenditures	Total expenditures year ending March 31, 1938	Yearly cost per pupil ending March 31, 1938	Weekly cost per pupil ending March 31, 1938	Total expenditures year ending March 31, 1939	Yearly cost per pupil ending March 31, 1939	Weekly cost per pupil ending March 31, 1939
Medicine and medical comforts.	512.61	1.83	.04	694.32	2.37	.05
Groceries and provisions.......	23,318.45	83.28	1.60	22,498.89	76.79	1.48
Bedding, clothing and shoes...	894.56	3.20	.06	1,131.34	3.86	.07
Fuel, light, power and water...	15,076.17	53.84	1.03	15,915.39	54.32	1.04
Laundry, soap and cleaning....	1,393.75	4.98	.10	1,738.29	5.93	.11
Furniture and furnishings.....	457.21	1.63	.03	1,995.11	6.81	.13
Farm expenses...............	2,777.05	9.92	.19	2,767.30	9.45	.18
Repairs and alterations........	2,245.90	8.02	.15	2,357.91	8.05	.15
School supplies and equipment.	2,126.45	7.59	.15	2,098.54	7.16	.14
Maintenance of motor vehicles.	827.27	2.95	.06	887.63	3.03	.06
Contingencies................	2,030.16	7.26	.14	1,356.90	8.04	.16
Vocational supplies...........	3,177.19	11.35	.22	2,725.26	9.30	.18
Travelling expenses...........	894.59	3.19	.06	1,086.21	3.71	.07
Salaries and wages............	86,066.47	307.38	5.91	86,131.09	293.96	5.65
Total expenditures.......	141,797.83	506,42	9.74	144,384.18	492.78	9.48
Revenue						
Pay Pupils..................	3,326.00			3,375.00		
Farm......................	5,515.90			5,977.15		
Canadian....................	64.55			65.50		
Industries...................	324.82			271.88		
Miscellaneous................	475.06			1,008.83		
Perquisites, Pay List..........	6,661.15			6,764.87		
Total...................	16,367.48			17,463.23		

Average number of pupils, 1937-38 term, 280.
Annual cost per pupil, $506.42.
Weekly cost per pupil, $9.74.

Average number of pupils, 1938-39 term, 293.
Annual cost per pupil, $492.78.
Weekly cost per pupil, $9.48.

C. B. McGuire,
Bursar.

Report of School Physician

The following is the report of the School Physician. Total admissions to hospital from April 1, 1938 to March 31, 1939, were 479. These included two cases of fractured arms, three cases of lobar pneumonia, one mastoidectomy, and one appendectomy.

During February and March 172 cases of influenza occurred. During the epidemic, and owing to the infection, a boy of twelve died as the result of diabetic coma.

In the course of the year 26 children were vaccinated against smallpox, 41 were given scarlet fever immunization, and 29 were given diphtheria toxoid.

R. W. Tennent,
Physician.

Respectfully submitted,
W. J. Morrison,
Superintendent.

Belleville, May 10th, 1939.

APPENDIX J

REPORT OF THE SUPERINTENDENT OF THE ONTARIO SCHOOL FOR THE BLIND

Foreword

"The impossible is only the untried."

Enrolment

	Boys	Girls	Total
Enrolment, January 1, 1938	80	71	151
Admitted January 1 to June, 1938	0	1	1
	80	72	152
Withdrawn January 1 to June, 1938	1	2	3
	79	70	149
Left June, 1938	4	9	13
	75	61	136
Admitted September, 1938	16	13	29
Admitted March 1, 1939	1	0	1
	92	74	166
Withdrawn September, 1938, to January 1, 1939	1	0	1
Withdrawn April 6, 1939	1	0	1
Enrolment, June, 1939	90	74	164

Graduates and Withdrawals

Age	No. Pupils	Reason for Withdrawal
8	1	Heart condition.
11	1	*Returned home after illness—brain tumour.
13	1	Remained at home on account of illness.
13	1	†Epileptic.
15	1	Went to work on father's farm.
16	1	At home on account of illness.
17	1	Remained at home to help mother.
18	1	Went to work.
19	4	One took Home Teacher's Course at Canadian National Institute for the Blind, Toronto, and is now employed as Home Teacher. One went to work in Canadian National Institute for the Blind shops, Winnipeg. One stayed at home on account of illness (diabetic). One went to work in father's store.
21	2	One at home. One at work in Canadian National Institute for the Blind shops, Toronto.
22	3	All three completed the course. One is employed as Home Teacher, Toronto. ‡One entered University of Alberta. §One completed musical training—excellent student.
	17	

*This little girl was a very brilliant student. She had had a brain tumour operation before coming to us, and the condition again became aggravated, resulting in her death some months after she left school.

†This is the last of three pupils afflicted with epilepsy, all of whom we have had to exclude. May I again point out that I feel a home should be established for blind children who are prevented from attending school through mental disability, physical disability, or both.

‡This Alberta lad entered the University of Alberta last September. He is taking a course in Economics and History.

§All of our graduates were placed in employment with the exception of this one boy.

New Pupils in Age Groups

Age	No. Pupils	Age	No. Pupils	Age	No. Pupils
6 years	1	*13 years	4	19 years	1
7 "	1	14 "	5	20 "	1
9 "	1	15 "	1	†22 "	1
10 "	3	16 "	6	‡30 "	1
11 "	2	17 "	1		
12 "	1	18 "	1		31

*One of these thirteen-year-old lads was a re-entry in September.

†This 22-year-old pupil lost her sight as a result of a brain tumour last year, and came to us for training and orientation to blind life. She has made a remarkable adjustment, and will unquestionably make her way upon graduation.

‡The Government of Alberta requested us to accept this girl for a year's training.

Mental Ratings of New Pupils

Intelligence Quotient	No. Pupils	Intelligence Quotient	No. Pupils
140 plus	1	75–90	4
120–140	2	50–75	3
110–120	5		
90–110	16	Total	31

Enrolment by Provinces

	January 1, 1938	January 1, 1939
Ontario	111	117
Alberta	18	25
Manitoba	8	7
Saskatchewan	14	15
	151	164

The increase of 13 in enrolment is made up almost equally from Alberta and Ontario.

Enrolment by Provinces for Past Five Years

Year	Ontario	Alberta	Manitoba	Saskatchewan	Total
January 1—					
1935	79	12	9	11	111
1936	90	15	10	11	126
1937	101	19	9	15	144
1938	111	18	8	14	151
1939	117	25	7	15	164

Enrolment by Grades, January 1, 1939

Grade I	13	Grade VII	16
" II	12	" VIII	19
" III	5	" IX	21
" IV	12	" X	15
" V	17	" XII	12
" VI	11	†Specials	11
			164

†This group of eleven students are in their graduating year, and have spent a major part of their time on one or two special subjects.

Age-Grade Table

	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	Adults over 21	Mean Age	Ontario	Western	Total
Grade I	2	4	1	1	2	1	...	1	...	...	1	...	...	...	...	9–6	11	2	13
Grade II	...	2	1	3	2	2	...	1	...	1	...	...	...	...	...	11–0	10	2	12
Grade III	...	...	1	2	1	1	1	...	...	...	...	...	...	...	...	11–0	3	3	6
Grade IV	...	1	2	2	3	1	1	...	1	1	...	...	...	...	...	11–4	7	5	12
Grade V	...	...	...	1	...	2	4	2	3	...	1	2	1	...	...	14–6	13	3	16
Grade VI	...	...	...	...	1	3	2	1	2	2	...	...	...	...	...	13–6	9	2	11
Grade VII	...	...	...	...	...	1	3	3	3	2	2	1	1	...	...	15–4	13	3	16
Grade VIII	...	...	...	...	...	...	1	3	1	8	3	2	...	...	1	16–6	13	6	19
Public School Total	2	7	5	9	9	11	12	11	10	14	7	5	2	...	1	13–10	79	26	105
Grade IX	...	...	...	...	...	...	1	2	1	7	4	1	2	2	1	16–10	13	8	21
Grade X	...	...	...	...	...	...	...	...	...	4	3	3	2	3	...	18–4	12	3	15
Grade XI	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grade XII	...	...	...	...	...	...	...	...	...	...	1	2	2	3	4	20–6	4	8	12
Grade XIII	...	...	...	...	...	...	...	...	...	...	1	...	2	2	5	21–0	8	2	10
High School Total	...	...	...	...	...	...	1	2	1	11	9	6	8	10	10	18–0	37	21	58
Grand Total	2	7	5	9	9	11	13	13	11	25	16	11	10	10	11	16–2	116	47	163

Attendance-Grade Table

	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	Mean Attendance Y.M.	Ontario	Western	Total
Grade I	7	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	0–1	11	2	13
Grade II	3	5	4	...	...	...	...	...	...	...	...	...	...	...	...	...	1–2	10	2	12
Grade III	3	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	2–0	3	3	6
Grade IV	2	2	5	1	1	1	...	...	...	...	...	...	...	...	...	...	2–3	7	5	12
Grade V	1	4	5	6	...	...	...	...	...	...	...	...	...	...	...	...	2–3	13	3	16
Grade VI	...	...	3	2	4	1	1	...	...	...	...	...	...	...	...	...	4–5	9	2	11
Grade VII	3	2	1	2	2	3	2	1	...	...	...	...	...	...	...	...	4–0	13	3	16
Grade VIII	5	4	...	1	1	...	5	2	1	...	...	...	...	...	...	...	3–4	13	6	19
Public School Total	24	20	22	13	9	5	8	3	1	...	...	...	...	...	...	...	2–3	79	26	105
Grade IX	4	3	1	2	...	3	1	2	3	1	1	...	...	...	...	...	5–6	13	8	21
Grade X	...	1	...	1	...	...	1	2	3	3	2	1	...	1	...	...	9–0	12	3	15
Grade XI	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grade XII	...	...	1	2	2	...	...	1	2	...	2	2	...	...	...	...	8–0	4	8	12
Grade XIII	1	...	2	...	2	...	...	1	...	2	...	1	1	...	...	...	7–7	8	2	10
High School Total	5	4	4	5	4	3	2	6	8	6	5	4	1	1	...	...	7–8	37	21	58
Grand Total	29	24	26	18	13	8	10	9	9	6	5	4	1	1	...	...	3–4	116	47	163

Comment on Age-Grade Table

The mean age in Grade I in the Ontario School for the Blind, as will be seen in the accompanying Age-Grade Table, is nine years, six months; throughout the primary schools of the Province, seven years. The mean age of Grade VIII at the Ontario School for the Blind is sixteen years, eight months; throughout the Province, thirteen years, eight months. It is thus seen that the blind progress as rapidly through the Public School grades as do the seeing, the age-grade difference being more than accounted for by the late age of entry.

High School

As shown by the table "Enrolment by Grades," our High School Department is made up of Grades IX, X, XII, and a group of special students. We covered courses leading to matriculation in Music, English, French, British History, Spanish, Geography, Mathematics, Science, Typewriting, Sewing, Knitting, and Boys' Industrial Shop.

It would seem that Science and Mathematics should be very limited in a curriculum for the education of the blind. Our students do the work in Language and History quite as well as the seeing. The work in Music is much more advanced than the curriculum calls for. We train for a full A.T.C.M. degree.

Fifteen of our High School students passed a partial junior matriculation this year. One of our graduates of June, 1938, entered the University of Alberta and completed a very successful first year in Economics and History. A Saskatchewan graduate finished his Bachelor of Arts degree at the University of Saskatchewan.

Library Report

Total enrolment	164
Number of pupils borrowing books	146
Total number of volumes read	2,059
Average number of volumes per pupil	14.10
Number of volumes added to the Library during the year	116

A number of our High School students have also been regular borrowers from the Library for the Blind in Toronto, as they have exhausted our own library.

Health Education

We regard education for health and the development of good physique as our first duty. To that end, every child in the school has a health education period of at least forty minutes every day. This is in addition to hikes and walks with Scouts and Guides, and free time in the open air for a minimum of an hour per day.

Miss Behrens has done extensive and efficient work with her folk dance units in the gymnasium. Last month we had an inter-school meet with the New York School for the Blind of Batavia. Some of the top figures for that meet were as follows:

Climbing a 16-foot rope	3 seconds.
Throwing the basket ball	105 feet.
75-yard dash	8 4/5 seconds.
Standing broad jump	9 feet, 10 inches.
Three consecutive broad jumps	29 feet, 6 inches.

Of the sixteen boys representing the two schools, six are totally blind. The outstanding athlete of the meet is totally blind. This lad, who is twenty years old, made four of the five records above. Except in the broad jumps, he was closely followed by the other competitors. I have given these statistics to show that the blind can be trained to achieve top standing in lines of endeavour where seeing folk would think sight essential. Finally, I should explain that the blind boy does his sprint guided by a leather tab attached to a cable by means of a metal ring. Otherwise he could not maintain a straight course. But even with this handicap, the best do a measured 75 yards in 8 1/10 seconds.

Industrial Shop

During the year we have used an electrically-driven lathe. We built shields about the lathe to avoid accidents. It has been of considerable value to us in turning out material for such projects as table legs and fern stands.

During the year the boys built two full-size row-boats. These were tested and put to good use at Thayendanegea Camp during our camping week-ends in June. Indeed, the camp authorities asked us to donate one for the use of summer campers throughout the season. The boys who conceived this project and did the major part—if, indeed, not all the work—are totally blind.

A down-town friend and former Master at the Brantford Vocational School, Mr. Hudson, together with the boat builders, made a Braille graduated yard-stick with gauges suitable for the use of the blind.

The senior classes repaired school furniture and did caning for outside customers to the amount of over sixty dollars.

Extra Curricular Activity

On June 13th, the School presented Edward German's light opera, "Merrie England." This opera demanded skill of a high order, not only in the interpretation of the spoken word, but also in the interpretation of song. The story is set in the days of "Good Queen Bess," and introduces the Queen, Sir Walter Raleigh, Essex, pages, courtiers, a May Queen scene, and some enjoyable comedy.

The opera was staged in the beautifully wooded school grounds. There was the bank of the Thames with the royal barge, and Windsor Forest. The Egyptian and English country dances were exquisitely executed for the Royal Court in Windsor Forest. Possibly the highest achievement was the costuming—over seventy people with colourful costumes all definitely in period.

Our Guides and Scouts have had busy and successful years. They both contributed largely to city-wide rallies during the year. Seventy of our senior students again used Camp Thayendanagea for long week-end camps. They went out, sexes separately, Friday at 3.00 p.m., and returned Sunday evening. They cooked their own meals, swam, rowed, danced, played ball, and came home feeling that the time had been all too short.

Music

In our Music Department we have given instruction as shown below:

Piano	121 students
Orchestra	48 students
Individual	30 students
Choral (in three separate groups)	Whole School
Musical Theory and History for Toronto Conservatory Examinations	31 students

The following is a list of candidates who passed Conservatory examinations:

1938

HISTORY V

Oilver Ball	*Honours*
Leo Carroll	*First Class Honours*

COUNTERPOINT V

Leo Carroll	*First Class Honours*
Tina Biluk	*First Class Honours*
Elizabeth Gliddon	*First Class Honours*
Geraldine McGregor	*First Class Honours*
Oliver Bell	*Honours*

THEORY II

Oliver Bell	*First Class Honours*

TEACHERS' EXAMINATION

Elizabeth Gliddon	*Honours*
Tina Biluk	*Honours*

GRADE V HARMONY

Oliver Bell	*Honours*

FORM V

Oliver Bell	*Honours*

A.T.C.M.

Geraldine McGregor	*Fisrt Class Honours*
Elizabeth Gliddon	*Honours*

1939

THEORY II

Godelieve Schamp	*First Class Honours*
Joyce Burrows	*First Class Honours*
Letty Gifford	*First Class Honours*
Mildred Harrison	*First Class Honours*
Leola McWhirter	*First Class Honours*
Alice Mantz	*Honours*
Viola Switch	*First Class Honours*

HARMONY IV

Annie Simons	*First Class Honours*

COUNTERPOINT IV

Annie Simons	*First Class Honours*

At the Stratford Musical Festival in February, 1939, our students won the following honours:

Small Madrigal Choir	*First Prize and Stratford-Beacon Herald Trophy*
Ladies' Ensemble	*First Prize and Mrs. McLagen Cup*
Ladies' Trio	*First Prize—Gold Medals*
Ladies' Duet	*Second Prize—Silver Medals*
Mixed Quartet	*First Prize—Gold Medals*
Baritone Solo	*First Prize—Gold Medal*
Soprano Solo	*First Prize—Gold Medal*

Miss Helen Self, who won the gold medal in the soprano class also won the Medlyn Trophy for the finest performance of all gold medallists in the festival under twenty-one years of age. Along with the Medlyn Trophy, Miss Self won a fifty-dollar scholarship.

Services to the Community

The following is a list of services rendered to the community by students of our school:

English teachers on exchange in Toronto visited the city as guests of the Brantford Teachers' Federation, and were entertained at the school with afternoon tea, a tour of the school, and musical entertainment by our pupils.

One of our senior boys played a violin solo at a meeting of the Victoria Home and School Club.

One of our senior lads gave an original address on "Sir Wilfrid Laurier" at an I.O.D.E. meeting of the Brant Chapter.

A full evening's concert was presented by a group of our pupils at the United Church in Otterville.

Our musical director, Mr. Lord, is also the organist at the First Baptist Church. During his absence from the city, members of our senior choral class took over the musical part of the Sunday Church service. One of our boys played the organ throughout the whole service—for hymns, offertory, solos and anthems.

The superintendent addressed the Windsor Canadian National Institute for the Blind, giving details of the school's work in his talk.

A full evening's concert was given at the Oakville United Church by our senior pupils.

Miss Esther Murray, one of our academic teachers, gave a talk on the work of the school at Blow's Corners. She took two of our senior pupils along to give vocal solos.

Miss Sue Miller of our music staff and her choral groups presented a full evening's concert at Brantford Sydenham United Church.

Miss Esther Murray gave an address at Woodstock on the work of our school, and was assisted during the evening by musical numbers from two of our senior pupils.

Under the direction of Miss Miller, our choral students contributed to the programme of the local Canadian National Institute for the Blind.

On the night of school closing for the Christmas holidays, at the request of C.N.R. officials, our senior pupils sang carols at the C.N.R. station,—the occasion being a staff party of C.N.R. employees.

Members of our senior Girls' "Star Fourteen Club" entertained members of the Widow's Home.

One of our junior boys played the timpani at a concert given by the Colborne Street Church.

Our self-taught junior jazz band, by request played at a banquet given by Scouters of the city.

One of our junior boys read the scripture lesson at Wellington Church service,—from Braille Bible.

Members of Brant Avenue United Church attended the church supper, contributing numbers to the concert after the supper.

Dufferin Public School pupils visited our school to receive certain instruction regarding orchestral instruments from our Musical Director, Mr. Lord. He was assisted in this demonstration by some of our orchestra members.

Under the direction of Miss Sue Miller, our senior pupils presented a concert at the Scottish Rites Temple in Hamilton. Masons from Brantford drove our party to Hamilton.

One of our senior boys sang at a meeting of St. Basil's Young People's Association.

Our Senior Boys' Dance Orchestra went to Burford to play for a dance given by the Rebecca Lodge.

One of our junior orchestra members played the timpani in a concert given by a city organization at the Collegiate Institute.

The Superintendent spoke at a meeting of the I.O.D.E. on the work of the school, and took along a group of our pupils to assist with musical numbers.

During Easter week, Mr. Lord and our madrigal group went to the O.E.A. meeting. Mr. Lord gave a talk on music, and our madrigal group assisted with certain numbers.

Miss Zella Perry of our music staff addressed a meeting of the Music Teacher's Association. One of our senior students assisted her to demonstrate methods of teaching music to blind students.

Our Jazz orchestra played at a meeting of "Native Sons."

Members of our senior boys' gymnasium classes demonstrated "pyramid building" at the local Y.M.C.A. Circus. They also gave this same demonstration at a city wide Scout Rally.

Our pupils presented a concert in Hamilton under the auspices of the Hamilton C. N. I. B.

Miss Murray spoke at Fairfield United Church on the work of our school, taking with her junior pupils to demonstrate our methods of teaching.

Acknowledgments

We wish to make acknowledgment of the following gifts and entertainment in connection with our school:

To Mr. E. Moule, Manager of the Capital Theatre, for entertainment of our pupils at various shows during the season.

To Brant Avenue Church officials for an invitation to attend a lecture on Nova Scotia.

To Mr. Lord and his Canadian Choir for an invitation to attend their concert, given on the occasion of Lieutenant-Governor Matthew's visit to Brantford.

To St. Jude's Church for the entertainment of our Girl Guides.

To Brant Avenue Church Dramatic Club for inviting forty of our pupils to attend their production of "Enchanted April."

To Mr. Burkwall, a missionary from China, for his delightful talk on China to our student body.

To Mr. Ellsworth Jaeger of Buffalo, New York, for his address to our students, on "A Woodland Symphony." Mr. Jaeger illustrated his talk by many imitations of calls of wild animals, and made it a thoroughly delightful occasion for our young folks.

To the Brantford Collegiate Institute Dramatic Club, for inviting thirty-six of our students to attend their production of "Twelfth Night."

To Mr. E. V. Brown, Principal of Lower School, Ridley College, and twelve of his students for a gift of $50.00 to assist less fortunate boys of our school in clothing, etc.

To Ernest Cuthbertson, Secretary of the local Boy Scout Association, for entertainment of our boys at various times during the year.

To the local C.N.I.B. for entertainment of our pupils.

To the Schubert Choir for tickets for our senior pupils for their spring concert. This concert was later presented at the New York World's Fair.

To the Brant Chapter of the I.O.D.E. for the gift of a beautiful flag to our Girl Guide Troop, and for money for talking-book records and public speaking prizes.

Canadian National Institute for the Blind

Throughout the year, the officers of the Canadian National Institute for the Blind have been of inestimable service to us in helping to finance some of our indigent students, in finding new students who should enrol, and in preparing them and their parents for their first school experience.

Most especially do we appreciate what Col. E. A. Baker and his placement staff do for our graduates. During these past difficult five years, they have given all of our graduates employment. It seems a sort of anomaly, but nevertheless it is true, that our students during their graduating year journey more hopefully and more confidently than the seeing friends about us.

I herewith submit reports from Dr. J. A. Marquis, Physician; Dr. Norman Bragg, Ophthalmologist; Dr. J. R. Will, Dentist; and Mr. G. H. Ryerson, Bursar:—

Report of Physician

I submit herewith a report on the health of pupils and staff of the Ontario School for the Blind from January 1, 1938, to June 30, 1939:

Total number of patients	217
Total number of hospital days	1,264
Infections and boils	12
Vaccination reaction	2
Toxoid reaction	2
Colds	21
Sore throat	5
Influenza	93
Bilious attack	22
Vertigo	3
Nervous indigestion	2
Influenza and anaemia	1
Pneumonia	1
Brain tumour	1
Heart condition	2
Neuritis	1
Whooping cough	3
Whooping cough with flu and strep. infection	1
Removal of coin swallowed	1
Removal of pin swallowed	1
Enucleation of eye	3
Fracture of arm	2
Fracture of thumb	1
Fracture of radius and ulna	1
Ingrown toenail and removal	1
Sprained ankle	2
Miscellaneous	33

From January 1, 1938, to January 1, 1939, we had only a total of 87 patients and 393 hospital days, as compared with 148 patients and 1,220 hospital days in the previous year. On March 17, 1939, the flu epidemic which was general throughout the city, reached our school, and over half of our pupils and staff contracted the disease. In addition to the school hospital, it was necessary to use parts of both the girls' and the boys' dormitories as hospital units, and to call in extra nurses for these patients. One patient developed pneumonia and was quite ill for a time, but she made a complete recovery. I must commend especially the work of our nurse, Miss Howell, at this difficult time.

One bright little girl who came to school in the fall of 1938, blind as the result of brain tumour, suffered a recurrence of this condition. She was cared for in our hospital for a time, but it was thought best to send her home when she was well enough to travel. Her death occurred at her home some months later.

Another young lad was sent home because of a heart condition.

Three boys with buphthalmic eyes were operated upon at the Brantford General Hospital. With this source of infection removed, they have all enjoyed improved health.

X-rays were taken of all fractures. The patients concerned have all recovered nicely.

We are continuing vaccinations, toxoid injections, and annual physical examinations. These examinations show a continued improvement in the children's physical condition during the past few years. The health programme followed at the school is developing sturdy bodies able to resist disease. This is supplemented by excellent and conscientious care during illness.

All of which I take pleasure in submitting.

J. A. Marquis,
Physician.

Report of Ophthalmologist

I have the honour to report on the eye examinations of new pupils entering the Ontario School for the Blind for the year 1938-9. This class numbers 29 pupils, 16 of whom are boys and 13 girls. The results of the new examination are as follows:

New Pupils

Condition of Sight	Male	Female	Total
1. Limited vision in both eyes	9	6	15
2. Limited vision in one eye	5	....	5
3. Quantitative light perception in both eyes	2	3	5
4. Quantitative light perception in one eye, none in other	....	2	2
5. Without light perception in both eyes	....	2	2
Totals	16	13	29

We are pleased to note from the above table that the new pupils coming to the school have a better degree of sight than previous classes. In this year's class we find that there are fifteen out of a total of twenty-nine who have some visual acuity in each eye, and five who have some vision in one eye. Only two new pupils are blind in both eyes. As improvement has been noted in each class for the past two or three years, we are inclined to attribute it to increasing public interest in matters concerning blindness. Medical attention is evidently being sought before cases become too advanced.

Diseases Causing Blindness

	Male	Female	Total
1. Ophthalmia Neonatorum and Keratitis	....	....	....
2. Iritis, Uveitis and Sympathetic Ophthalmia	1	3	4
3. Congenital Cataract and Dislocation of Lens	3	5	8
4. Fundus Lesions, Retino-Choroiditis	1	....	1
5. Optic Atrophy	4	2	6
6. Myopia	5	2	7
7. Congenital Glaucoma and Buphthalmus	2	1	3
Totals	16	13	29

One of the most gratifying facts to be noted from the foregoing table is the total absence of any case of keratitis that might be classified as being of ophthalmia neonatorum origin. This is a definite improvement on what was found formerly, and can be construed as the happy result of better prophylactic care of the newborn child. Unfortunately, in the other class of preventable blindness, namely, class 2, there is a slight increase in the number of cases over last year's class.

In two classifications, that of optic atrophy and myopia, we find a very definite increase in this year's class. It is hard to ascribe a reason for this, but it would seem that this form of congenital lesion, certainly in the case of myopia, might be reduced if medical examination were to be enforced previous to marriage; or if myopic children were taken out of school for a definite period when it has been established that their myopic condition is of a progressive type.

In group three, there are still too many cases. Practically all of these have been operated on, and with excellent results, from a surgical point of view, but with no marked improvement from a visual standpoint. This would seem to suggest that while surgery must and should be tried, it is not entirely sufficient to deal with the situation, and that the best hope of dealing with this problem lies in improved pre-natal care.

In addition to examining all new pupils, we made a careful examination of every pupil in the school. In many cases we were pleased to note a decided improvement in vision and eye condition. We were able to change glasses for a number of pupils, and to prescribe glasses for those who had not used them. Other students were assisted by advice regarding the use and care of their eyes.

All of which is respectfully submitted.

Norman W. Bragg, M.D.

Report of Dentist

I am pleased to state that on the whole the pupils take good care of their teeth. As the result, twenty-nine pupils did not require to have their teeth cleaned, and most of the others did not require much attention in that line.

One hundred and thirty-two fillings were inserted for the boys. Seventeen permanent and seventeen deciduous teeth were extracted.

One hundred and fourteen fillings were inserted for the girls. Six permanent and sixteen deciduous teeth were extracted.

Forty-six pupils required no fillings and thirty-seven needed only one each.

Partial dentures were made for two pupils—one where the teeth had been previously removed, and the other where they were considered detrimental to good health.

The co-operation of the pupils in this work was all that could be desired.

Respectfully submitted,

J. R. Will,

Dental Surgeon.

Bursar's Report

Financial Statement (April 1, 1938, to April 1, 1939)

Expenditures

Salaries and Wages	$55,329.43	
Travelling Expenses	345.53	
Medical Department	414.61	
Groceries and Provisions	13,089.28	
Bedding and Clothing	730.16	
Fuel, Light, Power, and Water	9,233.97	
Laundry, Soap, and Cleaning	1,255.87	
Furniture and Furnishings	1,212.25	
Farm and Garden	1,255.12	
Repairs and Alterations	2,039.55	
School Supplies, etc.	2,536.85	
Dental and Oculist Services	431.00	
Motor Conveyances	51.88	
Contingencies	1,938.85	
Total		$89,864.35

CASUAL REVENUE RETURNED TO THE DEPARTMENT

Perquisites	$ 5,662.99	
Farm Account	1,952.47	
Pigs sold	155.65	
Calf sold	8.00	
Chickens sold	35.00	
"School Progress" cheque returned	3.00	
Western Fees	11,733.33	
Total		19,550.44

SUMMARY

Total Expenditures	$89,864.35	
Less Casual returned to Department	19,550.44	
Actual Expenditure		70,313.91

Certified Correct,

G. H. RYERSON,

Bursar.

Conclusion

May I express to you, Sir, and to Dr. McArthur, and all Department officials, my appreciation of your readiness to help us in the great work that is a constant challenge to us.

I should like to commend to you the work of the teachers and officers. They have given their best freely, in school and out. The members of the house staff have been faithful in their tasks, and kindly disposed to the students of the school.

I have the honour to be, Sir,

Your obedient servant,

H. J. VALLENTYNE,

Superintendent.

July 10th, 1939.

APPENDIX K

REPORT OF THE INSPECTOR OF PUBLIC LIBRARIES

1. The Influence of the Public Library

If education is the second line of defence of democracy—and it is difficult to see how any other view can be supported—then the public library which is the antidote to propaganda and the parent of adult education, must, in this present hour of decision, be regarded as one of the chief peaceful defences against the enemy who would destroy us.

Such being the case, the tables of library information that are the essence of this report ought, one would think, to be worth the trouble of rather wider consideration from the public—and even from those who profess to be interested in library development—than they appear, formerly, to have received.

I do not suggest that all the books used through our public libraries are of equal value from the point of view of adult education. In fact, there are still books being circulated that come perilously close to having no value whatever. But the important consideration is that the general quality of public library selection is being steadily improved; and when one tries to make for himself a picture of the whole volume of the public reading, he cannot but be impressed by the thought of how great an influence it must be exerting, day after day, upon the outlook and the frame of mind of the people of the province. This public library reading means something infinitely more than gathering facts out of text-books. It means stimulus. It means the exercise of the alert mind, the broader view of life and of contemporary problems. It means the quickened imagination, the clearer vision, the ability to arrive at more cleanly-cut decisions.

The chief thing wrong with our public library reading is that there is not enough of it. The reason will, I hope, become apparent from the brief summaries of the general statistical tables which follow.

2. Circulation

I do not believe it can be taken as anything but under-statement when I suggest that the people of Ontario are perfectly capable of absorbing between six and seven books per capita each year from their libraries. This would give a total of twenty-two million books.

The actual circulation, 1937, was	13,193,642
A reduction from 1936 of	193,421
A per capita use of	3.09
The per capita use in cities and towns being	5.8
And in rural districts	.6

3. Libraries in the Province

The following summary shows the number of public libraries operating in the Province:

Free Libraries	184
Library branches	39
Libraries listed but not reporting	5
Total number of free libraries	228
Association libraries	274
Total number of all public libraries	502

The distribution of these libraries, without including library branches and non-repeating libraries, is as follows:

In places of 500 or smaller	174
500 to 1,000	100
1,000 to 5,000	127
5,000 to 10,000	26
10,000 to 20,000	14
More than 20,000	17

During 1938, the association libraries in Haileybury and Niagara changed their status and have now become free public libraries. New association libraries were organized at Port Dalhousie and Thornton, and the association libraries at Elk Lake and Hawkesbury, both of which had been closed for some years, were reorganized. The libraries at Runnymede and Delaware have been closed and the books distributed.

4. The Support of Public Libraries

It would seem from the foregoing figures that we must have almost enough libraries in the province to fill the people's book needs; and if the libraries were all effective that would probably be quite true and we should reach the twenty-two million mark already mentioned. But the libraries are not all effective. Indeed, it has often occurred to me that we are undertaking this particular phase of our national defence with flintlocks. Modern weapons cost money. The Libraries Act gives to every board of a free public library the right to expend on its services a minimum of fifty cents per capita, which is bare subsistence for a library that is carrying neither debt charges not branches.

This is what the library boards do about it in their municipal appropriations:

Using less than 25c per capita, there are	23	libraries
Using between 25c and 50c, there are	95	"
Using the 50c minimum	13	"
Using between 50c and 60c	27	"
Using more than 60c	26	"

Analyzing the situation further, we find that—

118 libraries use less than the statutory 50c per capita.

13 libraries use the statutory minimum of 50c per capita.

53 libraries use more than 50c per capita.

The per capita expenditure for the whole province is 36.8c.

Legislative grants amount to 2.9 per cent. of total expenditures.

5. Book Stocks

The free libraries contained in 1938	2,624,479 books
The association libraries contained	617,566 "
Total	3,242,045 books

It is not possible to collect statistics which would throw much light upon the actual value (book value, not dollars) of these collections, but I think I should be quite safe in saying that at least forty per cent. of the books in our public library are more or less out of date, many of them completely so.

6. Library Users

The free libraries have	638,036 borrowers
The association libraries have	22,595 "
Total	660,631 borrowers,

or 19.2 per cent. of the population of the province.

7. Certification and Training of Librarians

Although the certification of librarians is not compulsory, the classes that graduate annually from the Ontario Library School continue to be almost completely absorbed into the work. It is to be noted, however, that the great majority of these graduates go to the libraries in the larger cities. The following figures are enlightening:

Total number of free libraries (with branches)	228
Chief librarians holding certificates of librarianship	33
Staff members holding certificates	234

But, since 183 of these qualified staff members are employed in the libraries of Toronto, Hamilton, London, Ottawa and Windsor, we come upon the startling fact that in all the rest of the province there are only 51 trained staff workers They are divided among 23 libraries.

During the summer of 1938 the Department carried out a successful experiment in training for small libraries. Two classes in librarianship were held, one at McMaster University and the other at the University of Western Ontario.

Twenty students were admitted to each class. The period of each class was two weeks, and admission was confined to librarians in employment in places of fewer than 2,000 people. Although such a brief time of instruction meant that training was necessarily confined to the bare rudiments of librarianship, I am able to report that practically all the forty student-librarians came away very much better equipped for their work. I have since visited a number of the libraries that sent students to these classes, and in every instance I have found the standards of librarianship and library service being materially improved.

8. Librarians' Salaries

The following summary shows the salaries paid to librarians in the free libraries:

Population	Number of Places	Highest Salary	Lowest Salary	Average Salay
Not over 5,000	129	$ 900	$ 20	$ 304
5,000 to 10,000	25	1,680	100	830
10,000 to 20,000	13	2,280	900	1,285
More than 20,000	17	.....	.....	2,295

9. County Libraries

The work of the county libraries continues to progress steadily. Perhaps the most noteworthy step taken in 1938 was the appointment of a trained librarian by the Lambton County Association. In addition to the four counties now operating, Simcoe is in process of organizing itself, and a demonstration of the county co-operative is being carried out in Waterloo by the Kitchener Public Library. The 1937 reports show the following circulation from the county libraries:

Elgin	2,570	Middlesex	13,636
Lambton	35,255	Oxford	1,378

10. The Travelling Libraries

People living in the more thinly settled parts of the province are finding the travelling libraries more and more useful each year. The latest increase in borrowing has been chiefly through schools, the local branches of the Women's Institute, and young people's clubs. Letters that indicate a keen appreciation of this service have been received from many outlying points, particularly in the north, where in several instances the cases of books have been carried by aeroplane and dog team far beyond the end of steel.

A reference library has been established for the use of rural school teachers, the work being done through the office of the travelling libraries. More than 800 books were purchased for the purpose of this service. The registration of teachers was 749 and the book circulation 1,199.

Statistics for the travelling libraries are as follows:—

Libraries sent out during 1938

To schools	409	
To Public Libraries	216	
To Women's Institutes	101	
To Farmers' Clubs, etc	111	
Total		837
Increase over 1937		215

Book Circulation:

Boys' and girls'	45,770	
Adult non-fiction	11,376	
Adult fiction	22,963	
Total		80,109
Increase over 1937		15,669

ANGUS MOWAT,
Inspector of Public Libraries.

Toronto, March 31, 1939.

FREE PUBLIC

Showing Statistics, 1937, and

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Salary paid Librarians	Salaries paid Permanent Assistants
						$ c.	$ c.
1	Acton	1,916	648	5,293	9,853	156 00	96 00
2	Ailsa Craig	484	204	3,960	3,069	100 00	....
3	Almonte	2,362	553	4,677	17,808	430 00	....
4	Amherstburg	2,900	930	7,244	28,910	900 00	....
5	Arnprior					No An	nual Report
6	Arthur	1,037	147	3,796	6,149	84 00	....
7	Aurora	2,850	823	5,921	23,504	415 00	85 50
8	Aylmer	1,980	1,250	16,335	19,501	300 00	....
9	Ayr	755	430	5,371	8,211	175 00	....
10	Barrie	8,123	4,214	11,968	77,262	1 100 00	564 00
11	Beamsville	1,200	624	8,684	17,151	300 00	....
12	Beaverton					No An	nual Report
13	Beeton					No An	nual Report
14	Belleville	14,764	5,571	16,264	115,626	1,200 00	1,540 75
15	Belmont	600	312	1,874	3,788	102 00	....
16	Bothwell	647	171	2,410	4,279	104 00	....
17	Bracebridge	2,497	930	5,787	18,527	600 00	....
18	Brampton	5,400	2,318	6,873	37,284	840 00	253 50
19	Brantford	30,107	13,230	42,503	246,663	1,400 00	4,867 75
20	Brighton	1,500	319	5,183	14,950	100 00	....
21	Brockville	9,903	7,428	19,777	77,584	1,680 00	1,240 00
22	Brussels	750	220	5,177	5,235	240 00	....
23	Burk's Falls	818	493	2,720	5,302	180 00	....
24	Campbellford	2,800	1,409	8,312	29,113	600 00	25 00
25	Cardinal	1,450	150	3,432	2,517	100 00..	....
26	Carleton Place	4,275	379	6,937	14,171	380 00	....
27	Cayuga	700	126	2,778	4,350	60 00	....
28	Chatham	16,426	3,987	26,127	106,455	1,385 61	3,206 46
29	Chesley	1,815	604	5,568	16,172	175 00	....
30	Clifford	446	102	5,007	3,499	50 00	....
31	Clinton	1,900	639	11,093	15,576	525 00	....
32	Collingwood	5,700	950	12,889	24,749	720 00	....
33	Cornwall	12,870	2,018	11,476	45,680	900 00	437 00
34	Delhi	1,677	271	3,668	12,391	208 75	....
35	Drayton	551	289	4,143	4,344	240 00	....
36	Dresden	1,550	255	3,688	7,492	378 03	....
37	Dryden	1,661	352	3,806	13,136	200 00	....
38	Dundas	5,005	2,568	9,976	42,056	600 00	579 11
39	Durham	1,823	693	6,278	13,627	300 00	....
40	Elmira	2,170	1,083	6,765	9,939	250 00	....
41	Elora	1,195	480	9,806	14,822	229 16	....
42	Erin	481	137	3,495	3,112	60 00	....
43	Essex	1,800	772	5,253	7,318	300 00	....
44	Exeter	1,652	914	5,781	17,067	350 00	....
45	Fenelon Falls	1,060	265	4,938	18,428	155 21	....
46	Fergus	2,785	660	6,552	17,284	350 00	41 00..
47	Fonthill	1,000	601	7,794	3,308	180 00	....
48	Forest	1,502	710	2,691	17,378	480 00	....
49	Fort Erie, Main	5,900	3,562	10,470	45,151	515 00	568 00
50	South Branch					Included	in figures of
51	Fort Frances	5,713	3,216	7,571	32,158	600 00	420 00
52	Fort William, Main	24,371	10,891	43,880	192,996	1,816 68	5,705 75
53	Ward Four Branch					Included	in figures of

LIBRARIES

Legislative Grants Paid in 1938

No.	Certificate of Librarianship		Municipal Appropriation	Municipal Appropriation per Capita	Legislative Grant Paid in 1938	Amount Expended on Books	Total Expenditure	Hours Library is Open per Week
	Librarian	Assistants						
			$ c.		$ c.	$ c.	$ c.	
1	....	....	657 14	.34	100 37	231 06	768 70	5
2	....	....	130 00	.27	32 70	50 20	190 90	6
3	....	....	600 00	.25	133 00	290 72	847 13	12
4	....	....	1,850 00	.64	131 20	473 43	2,355 03	35
5	for	1937						
6	....	....	289 23	.28	82 51	111 25	390 20	8
7	....	....	750 00	.26	125 92	291 33	934 60	11½
8	....	....	1,000 00	.50	122 27	431 78	1,324 17	12
9	....	....	350 00	.46	101 10	145 34	689 07	25
10	Yes	....	4,061 50	.50	209 00	1,267 67	4,596 36	33½
11	....	....	850 00	.71	133 05	359 31	1,017 98	15
12	for	1937						
13	for	1937						
14	Yes	2	5,500 00	.37	209 00	1,550 77	6,905 01	66
15	....	....	190 00	.31	60 52	73 95	294 33	6
16	....	....	100 00	.15	58 28	126 04	278 85	10½
17	....	....	1,276 50	.51	136 46	455 67	1,531 55	27½
18	....	....	2,400 00	.44	159 00	518 32	2,687 61	35¾
19	....	4	12,367 00	.41	209 00	4,143 76	13,833 54	66
20	....	....	360 00	.24	79 49	225 63	540 57	10
21	....	....	5,447 15	.55	159 00	1,024 66	5,703 41	42
22	....	....	600 00	.80	68 87	102 54	775 43	40
23	....	....	350 00	.42	88 92	113 60	439 63	7½
24	Yes	....	1,350 00	.48	185 82	582 95	1,813 67	39
25	....	....	300 00	.20	65 52	71 78	310 17	5
26	....	....	500 00	.11	83 12	89 03	592 35	22
27	....	....	100 00	.14	14 00	35 78	102 79	8
28	Yes	....	8,800 00	.53	209 00	2,012 81	9,659 73	66½
29	....	....	650 00	.35	131 90	340 05	848 73	9
30	....	....	150 00	.33	37 34	77 22	175 72	58
31	Yes	....	800 00	.42	197 55	335 38	1,495 98	31½
32	....	....	2,500 00	.44	141 50	364 58	2,544 33	45
33	....	....	2,900 00	.22	155 37	962 46	3,188 17	43½
34	....	....	419 25	.25	120 02	244 03	1,111 25	12
35	....	....	322 00	.58	51 92	36 55	398 51	26
36	....	....	800 00	.52	131 87	253 35	979 98	35
37	....	....	550 00	.33	99 00	374 60	761 94	6
38	....	....	2,500 00	.50	145 64	377 88	2,832 75	25
39	....	....	800 00	.43	121 80	401 91	1,060 35	12
40	....	....	1,025 00	.47	147 00	247 23	1,204 40	14
41	....	....	1,252 97	1.04	130 50	634 29	1,422 03	19
42	....	....	225 00	.46	29 60	21 52	253 70	6
43	....	....	700 00	.39	93 15	197 78	847.37	10
44	....	....	950 00	.57	128 42	369 64	1,150 27	15½
45	....	....	200 00	.19	43 71	65 77	289 71	6½
46	....	....	1,371 06	.49	138 85	375 84	1,421 18	18
47	....	....	350 00	.35	74 82	90 64	424 48	7
48	....	....	800 00	.53	102 09	134 22	904 49	31
49	....	....	1,750 00	.29	251 77	908 46	2,213 45	32
50	Main	Library						
51	Yes	....	2,000 00	.35	144 00	532 98	2,411 89	24
52	Yes	2	13,745 78	.56	419 00	2,033 58	15,560 62	108
53	Main	Library						

FREE PUBLIC

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Salary paid Librarians	Salaries paid Permanent Assistants
						$ c.	$ c.
54	Galt	14,119	7,769	12,458	82,657	1,500 00	1,771 75
55	Gananoque	3,421	2,015	7,009	33,588	608 00	197 85
56	Georgetown	2,250	1,298	5,063	9,702	310 00	....
57	Glencoe	750	506	3,919	12,284	250 00	....
58	Goderich	4,300	2,081	6,929	27,752	840 00	....
59	Gore Bay	800	225	1,304	2,498	104 00	....
60	Grand Valley	590	143	3,250	4,816	300 00	....
61	Gravenhurst	2,000	484	2,762	14,501	150 04	....
62	Grimsby	1,981	1,320	5,020	32,504	660 00	....
63	Guelph	21,455	8,963	35,846	230,369	1,400 00	4,329 26
64	Hagersville	1,345	331	3,417	8,526	206 50	125 25
65	Haileybury*	2,735	82	4,760	7,093	220 00	....
66	Hamilton, Main	154,052	37,420	144,484	650,824	3,725 04	42,781 13
67	Kenilworth Branch						
68	Locke St. Branch					Included	in figures of
69	Mountain Branch						
70	Hanover	3,200	1,452	5,855	22,231	500 00	....
71	Harriston	1,265	820	6,409	19,429	480 00	....
72	Hensall	680	201	2,923	7,788	110 00	....
73	Hespeler	2,847	640	6,275	15,782	650 00	....
74	Hillsburg	500	207	2,251	5,150	96 00	....
75	Ignace	354	59	848	1,414	50 00	....
76	Ingersoll	5,100	3,200	10,068	49,363	840 00	....
77	Kemptville	1,250	730	4,283	11,085	180 00	....
78	Kenora	8,421	3,772	7,602	56,177	1,100 00	574 10
79	Kincardine	2,464	869	5,782	17,922	430 00	....
80	Kingston	24,331	15,426	33,721	252,498	2,000 00	7,352 25
81	Kingsville	2,500	413	7,162	7,086	402 08	10 00
82	Kitchener	32,825	10,130	38,054	242,140	2,400 00	4,828 48
83	Lakefield	1,300	335	2,412	8,184	150 00	....
84	Lanark	719	285	2,711	6,863	75 00	30 00
85	Lancaster					No An	nual Report
86	Leamington	5,000	1,414	9,190	26,557	720 00	100 00
87	Lindsay	7,294	1,795	17,177	66,756	720 00	612 00
88	Listowel	2,900	839	6,804	25,096	600 00	....
89	Little Britain	253	82	3,605	3,981	20 09	10 06
90	Little Current	1,100	396	1,292	1,937	50 00	....
91	London, Main	76,424	26,194	105,837	532,411	3,500 00	15,133 12
92	East Branch						
93	South Branch					Included	in figures of
94	South East Branch						
95	Lucknow	1,068	331	5,390	11,054	200 00	....
96	Markdale	800	353	3,833	7,995	125 00	....
97	Meaford	2,761	917	5,102	22,211	570 58	....
98	Merrickville	800	262	2,021	14,400	120 00	....
99	Merritton	2,644	855	7,881	17,502	524 04	....
100	Midland	6,670	3,800	17,961	72,589	999 96	720 00
101	Millbrook	715	118	3,311	11,635	125 00	....
102	Milton	1,800	661	6,933	10,030	300.00	....
103	Milverton	1,045	257	5,814	9,383	175 09	....
104	Mimico	7,000	3,182	6,431	53,197	891 00	814 25
105	Mitchell	1,608	430	5,084	14,661	250 00	....
106	Mount Dennis	9,978	4,840	5,930	55,518	770 00	455 00
107	Mount Forest	1,815	1,015	7,760	16,337	500 00	....
108	Newcastle	675	356	4,425	12,018	180 00	....
109	New Hamburg	1,400	753	3,771	10,539	260 00	....
110	New Liskeard	2,968	1,194	11,189	24,934	600 00	....

LIBRARIES

No.	Certificate of Librarianship		Municipal Appropriation	Municipal Appropriation per Capita	Legislative Grant Paid in 1938	Amount Expended on Books	Total Expenditure	Hours Library is Open per Week
	Librarian	Assistants						
			$ c.		$ c.	$ c.	$ c.	
54	Yes	1	7,059 50	.50	209 00	2,032 25	7,836 68	61
55	....	....	2,000 00	.58	154 72	806 90	2,393 32	36
56	....	....	1,000 00	.44	133 97	539 33	1,318 88	13½
57	....	....	500 00	.66	96 30	234 10	722 12	22½
58	Yes	....	1,900 00	.44	157 05	518 02	2,431 49	36
59	....	....	250 00	.31	108 03	103 77	307 50	5
60	....	....	700 00	1.18	29 38	60 02	740 07	9
61	....	....	526 13	.26	99 00	314 72	652 57	8
62	....	....	1,275 55	.64	136 45	623 00	2,154 19	27½
63	....	....	10,727 50	.50	159 00	3,263 48	11,795 62	66
64	....	....	550 00	.40	134 81	217 37	797 75	8
65	....	....	120 00	....	20 00	....	331 85	18½
66	Yes	12	68,648 00	.44	578 71	9,221 11	74,828 92	150
67								
68	Main	Library						
69								
70	....	....	900 00	.28	134 25	465 74	1,224 67	34
71	....	....	700 00	.55	121 95	224 75	1,116 50	32½
72	....	....	195 20	.28	97 32	219 36	375 71	12
73	Yes	....	1,804 86	.63	198 67	459 48	2,074 12	19
74	....	....	219 50	.43	40 75	76 40	270 28	8
75	....	....	66 26	.18	9 00	21 00	77 30	13
76	Yes	....	2,377 00	.46	209 00	923 03	2,936 45	35½
77	....	....	550 00	.44	135 87	212 07	717 39	14
78	....	....	3,600 00	.43	159 00	996 30	4,022 46	34
79	....	....	900 00	.36	95 62	331 60	1,135 94	11½
80	Yes	3	13,200 00	.54	209 00	3,124 73	15,851 83	66
81	....	....	700 00	.28	76 24	111 30	787 48	20
82	Yes	3	16,431 00	.50	209 00	5,659 01	17,536 79	66
83	....	....	250 00	.19	128 49	99 17	405 02	5
84	....	....	200 00	.27	74 13	152 49	304 04	3
85	for	1937						
86	....	....	1,800 00	.36	141 37	633 93	2,262 07	40½
87	....	....	3,500 00	.48	159 00	1,556 76	4,207 70	36
88	....	....	1,100 00	.37	104 60	422 84	1,352 29	42
89	....	....	65 00	.25	63 87	51 11	269 09	78
90	....	....	271 06	.24	51 20	58 59	144 49	4
91	....	11	41,300 00	.54	609 00	11,790 03	45,260 72	102
92								
93	Main	Library						
94								
95	....	....	518 00	.48	114 52	181 72	519 76	15
96	....	....	257 13	.32	85 20	199 82	667 20	7½
97	....	....	1,500 00	.54	110 00	494 02	1,778 96	25
98	....	....	375 00	.47	58 01	154 03	429 29	63½
99	....	....	1,473 65	.55	68 00	163 11	1,589 12	14
100	....	1	3,122 49	.46	140 75	779 02	3,630 72	23½
101	....	....	250 00	.35	107 97	44 95	302 60	7
102	....	....	500 00	.27	36 71	156 21	598 09	7½
103	....	....	752 89	.72	110 12	255 17	878 15	12
104	....	....	3,640 00	.52	154 00	980 59	4,096 58	32½
105	....	....	600 00	.37	127 30	283 52	836 60	10
106	....	....	3,165 00	.32	128 64	663 80	3,386 16	30
107	....	....	982 00	.54	119 23	178 32	1,360 14	25
108	....	....	345 00	.51	140 37	389 44	969 06	7
109	....	....	750 00	.53	134 50	409 18	1,094 05	24
110	....	....	1,400 00	.47	141 10	799 82	2,123 05	33

FREE PUBLIC

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Salary paid Librarians	Salaries paid Permanent Assistants
						$ c.	$ c.
111	Newmarket	3,790	1,100	6,177	29,118	300 00	....
112	New Toronto	7,095	1,722	11,261	69,406	1,300 00	1,284 38
113	Niagara	1,651	60	8,520	2,662	100 00	....
114	Niagara Falls, Main	18,526	9,058	28,607	201,366	1,350 00	4,020 95
115	Drummond Branch					Included	in figures of
116	North Bay	15,207	7,607	16,188	97,166	1,300 00	2,077 40
117	Norwich	1,091	336	5,447	14,454	240 00	....
118	Norwood	725	255	1.583	5,118	200 00	....
119	Oakville	3,950	1,500	9,505	22,582	900 00	30 00
120	Oakwood	250	110	2,670	5,640	75 00	....
121	Oil Springs	500	122	1,374	13,213	50 00	....
122	Orangeville	2,764	650	9,302	21,402	720 00	....
123	Orillia	8,704	3,030	11,092	75,718	800 00	980 10
124	Oshawa	24,844	10,929	16,584	136,957	1,266 00	3,121 75
125	Ottawa, Main	142,852	29,414	141,373	470,352	3,925 00	28,796 50
126	Boys and Girls Branch						
127	Edinburgh Branch						
128	Rideau Branch					Included	in figures of
129	South Branch						
130	West Branch						
131	Otterville	2,457	136	3,707	3,585	104 00	....
132	Owen Sound	12,562	4,127	21,410	113,387	1,047 50	1,632 91
133	Paisley	773	156	3,253	3,983	264 00	....
134	Palmerston	1,410	715	4,927	8,493	360 00	....
135	Paris	4,325	1,580	14,840	41,665	800 00	40 00
136	Parkhill	1,000	587	3,679	5,027	200 00	....
137	Parry Sound	3,569	859	7,321	26,097	480 00	....
138	Pembroke	10,326	3,637	14,793	33,755	900 00	....
139	Penetanguishene	4,000	320	8,314	20,013	400 00	....
140	Perth	4,183	1,045	7,277	26,760	600 00	247 70
141	Peterborough	23,619	7,250	29,574	174,295	2,370 00	4,188 21
142	Petrolia	2,600	761	1,695	14,209	220 00	....
143	Picton	3,410	2,152	9,527	39,251	800 00	....
144	Porcupine-Dome	4,738	925	3,697	19,569	391 95	31 25
145	Port Arthur	20,724	9,990	16,217	114,067	1.500 00	4,385 00
146	Port Carling	506	220	2,948	5,136	225 00	....
147	Port Colborne	6,348	2,189	7,155	28,531	800 00	....
148	Port Elgin	1,309	560	5,339	8,093	235 82	....
149	Port Hope	4,200	1,817	12,024	25,694	750 00	135 00
150	Port Perry	1,126	751	4,025	9,332	175 00	....
151	Port Rowan	665	203	2,414	2,595	75 00	....
152	Prescott	2,850	1,312	12,572	25,801	428 00	218 20
153	Preston	6,415	2,058	10,168	62,833	730 00	440 00
154	Renfrew	5,332	2,725	14,556	52,535	699 96	120 00
155	Richmond Hill	1,241	623	5,005	6,794	200 00	....
156	Rittenhouse	500	283	2,498	3,384	....	....
157	St. Catharines	27,426	9,959	31,975	277,842	2,046 00	6,282 78
158	St. Edmunds	472	316	1,840	6,120	52 00	....
159	St. Jacob's	585	348	1,952	3,204	168 00	....
160	St. Mary's	4,017	1,862	7,642	21,238	600 00	....
161	St. Thomas	16,428	6,736	27,285	161,877	1,680 00	3,708 17
162	Saltfleet Twp	6,158	1,833	5,840	29,485	300 00	160 00
163	Sarnia	18,155	9,216	24,595	147,747	2,280 00	3,174 25
164	Sault Ste. Marie	23,627	8,325	18,401	113,595	1,500 00	4,002 50
165	West Branch					Included	in figures of
166	Schreiber	1,243	299	1,401	10,284	150 00	....
167	Seaforth	1,800	369	3,707	12,806	420 00	....
168	Shelburne	1,100	310	6,458	9,912	180 00	....
169	Simcoe	5,826	2.735	13,944	51,379	800 00	296 75
170	Smith's Falls	7,775	2,659	12.718	37,968	900 00	142 00

LIBRARIES

No.	Certificate of Librarianship		Municipal Appropriation	Municipal Appropriation per Capita	Legislative Grant Paid in 1938	Amount Expended on Books	Total Expenditure	Hours Library is Open per Week
	Librarian	Assistants						
			$ c.		$ c.	$ c.	$ c.	
111	....	....	1,200 00	.31	128 49	621 63	1,342 93	10
112	Yes	1	5,200 00	.73	204 00	1,777 17	5,705 98	33
113	....	....	200 00	.12	146 87	....	209 85	6
114	Yes	3	9,264 63	.50	394 92	3,086 23	12,028 75	96½
115	Main	Library						
116	Yes	1	6,663 87	.43	209 00	1,520 75	7,060 49	33
117	....	....	700 00	.64	120 30	276 66	1,015 42	8
118	....	....	300 00	.41	53 87	58 41	427 36	26
119	Yes	....	2,100 00	.53	130 20	761 84	1,792 27	28½
120	....	....	59 11	.23	35 32	65 42	153 52	6
121	....	....	150 00	.30	41.87	150 09	238 39	6½
122	....	....	2,000 00	.72	145 75	368 28	2,171 20	36
123	Yes	1	3,800 00	.43	204 00	1,163 05	4,685 42	35
124	Yes	2	8,400 00	.34	209 00	2.691 92	9,854 58	66
125	....	11	69,950 00	.48	859 76	13,749 76	73,768 11	278
126								
127								
128	Main	Library						
129								
130								
131	....	....	....	....	55 10	82 50	292 44	15
132	....	2	7,200 00	.57	209 00	3,153 77	8,112 83	48
133	....	....	300 00	.38	81 55	35 20	421 94	19½
134	....	....	1,036 59	.73	67 10	107 01	1,758 26	38½
135	....	....	1,900 00	.43	154 02	676 86	2,290 77	37
136	....	....	529 67	.52	104 82	180 76	868 80	18
137	....	....	1,300 00	.36	99 00	748 06	1,714 55	12
138	Yes	....	2,600 00	.25	204 55	802 39	2,721 50	26
139	....	....	1,300 00	.32	99 00	222 45	1,367 90	10½
140	....	....	1,950 00	.46	140 57	757 49	2,428 31	33
141	Yes	3	11,566 00	.49	209 00	2,294 09	12,606 27	72
142	....	....	685 00	.26	116 87	259 79	875 27	30
143	Yes	....	2,558 00	.75	209 00	816 42	2,732 32	37½
144	....	....	1,300 00	.27	109 20	441 98	1,197 53	10½
145	Yes	1	13,400 00	.64	209 00	1,810 24	13,080 62	72
146	....	....	310 64	.61	52 06	77 11	377 71	8
147	....	....	1,610 88	.25	140 28	669 75	1,829 56	29
148	....	....	832 00	.63	93 28	208 24	1,629 58	25
149	Yes	1	2,000 00	.47	209 00	680 93	2,339 57	44
150	....	....	700 00	.63	87 61	183 10	970 34	12
151	....	....	330 00	.49	85 99	87 73	452 47	6
152	....	1	1,425 00	.50	137 67	379 58	1,617 33	12
153	....	....	3,100 00	.48	159 00	846 93	3,242 55	36
154	....	....	2,900 98	.54	152 70	1,180 91	3,673 93	36
155	....	....	458 15	.36	121 37	286 39	628 66	6
156	....	....	100 09	.20	87 08	141 58	168 73	2
157	....	4	14,853 60	.54	209 00	3,751 62	15,187 51	63
158	....	....	130 00	.27	38 07	92 95	207 92	4
159	....	....	300 00	.51	66 06	96 68	573 01	10
160	....	....	1,500 00	.37	154 00	421 77	1,598 54	29½
161	Yes	2	10,483 20	.64	209 00	3,611 38	11,846 20	66
162	....	....	1,200 00	.19	106 87	420 95	1,218 54	29
163	Yes	1	11,500 00	.63	209 00	3,988 54	11,962 80	66
164	Yes	2	10,200 00	.43	330 00	2,159 44	10,818 07	100½
165	Main	Library						
166	....	....	300 00	.24	81 40	139 73	455 56	71
167	....	....	951 46	.52	130 02	288 54	1,335 46	32½
168	....	....	700 00	.63	128 90	306 79	846 63	12
169	Yes	....	2,750 00	.47	209 00	1,215 11	5,686 43	32½
170	....	....	3,500 00	.45	159 00	1,350 78	4,033 71	42

FREE PUBLIC

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Salary paid Librarians	Salaries paid Permanent Assistants
						$ c.	$ c.
171	South River	825	230	1,125	2,538	50 00	....
172	Springfield	400	160	2,499	3,700	100 00	....
173	Stayner	1,000	364	1,941	4,095	100 00	....
174	Stirling	935	507	5,236	10,777	325 00	....
175	Stouffville	1,118	603	6,519	10,824	350 00	....
176	Stratford	17,384	5,662	29,374	156,390	1,000 00	1,983 80
177	Strathroy	2,947	877	6,900	14,679	600 00	....
178	Streetsville	626	422	3,068	8,947	216 00	....
179	Sudbury	26,315	1,489	6,777	40,385	1,200 00	1,506 50
180	Sundridge	600	229	1,883	1,898	40 00	....
181	Sutton	806	492	4,304	5,329	130 00	....
182	Swansea	5,000	860	5,377	18,025	490 00	....
183	Tara	500	130	3,086	4,154	166 00	....
184	Tavistock	1,100	330	6,499	8,872	234 00	....
185	Teeswater	837	150	6,224	4,823	199 98	....
186	Thamesville	814	235	3,700	6,539	170 00	....
187	Thorold	5,000	796	7,325	18,730	600 00	360 00
188	Tilbury					No An	nual Report
189	Tillsonburg	3,710	1,445	7,560	33,759	660 00	63 10
190	Timmins	23,632	7,625	16,858	99,602	805 00	2,074 46
191	Toronto, Main	645,462	176,834	590,035	3,659,176	5,860 93	221,999 16
192	Beaches Branch						
193	Boys and Girls Branch						
194	Danforth Branch						
195	Deer Park Branch						
196	Dovercourt Branch						
197	Downtown Branch						
198	Earlscourt Branch						
199	Eastern Branch						
200	Gerrard Branch					Included	in figures of
201	High Park Branch						
202	Northern Branch						
203	Queen-Lisgar Branch						
204	Riverdale Branch						
205	Runnymede Branch						
206	Western Branch						
207	Wychwood Branch						
208	Yorkville Branch						
209	Trenton	6,478	3,438	12,232	43,391	1,049 96	490 00
210	Uxbridge	1,325	323	7,759	11,484	60 00	....
211	Walkerton	2,424	774	9,683	24,459	600 00	....
212	Wallaceburg	4,537	2,277	7,142	43,663	625 00	450 00
213	Waterford	1,238	376	2,304	9,476	260 00	....
214	Waterloo	8,425	3,529	16,870	59,768	1,250 00	809 05
215	Watford	975	375	5,507	10,837	300 00	....
216	Welland	10,540	2,800	13,259	64,062	1,200 00	670 00
217	Weston	5,020	3,804	10,837	57,859	1,080 00	600 00
218	Whitby	3,870	1,501	7,833	19,138	500 00	....
219	Windsor, Carnegie	102,839	26,833	85,773	514,720	2,300 00	22,546 90
220	Willistead Branch						
221	Jno. Richardson Br.						
222	Hugh Beaton Branch.						
223	Sandwich Branch					Included	in figures of
224	Prince Edward Branch						
225	Victoria Ave. Branch.						
226	J. E. Benson Branch.						
227	Wingham	2,085	934	8,864	12,587	480 00	....
228	Woodstock	11,382	3,673	22,713	91,984	960 00	1,394 55
	Totals	2,012,041	638,036	2,624,479	12,336,077	116,771 96	423,937 64

*Haileybury was changed from an Association Library to a Free Library on January 3rd, 1938. Figures in Table are for 1937 when it was an Association Library.

LIBRARIES

No.	Certificate of Librarianship		Municipal Appropriation	Municipal Appropriation per Capital	Legislative Grant Paid in 1938	Amount Expended on Books	Total Expenditure	Hours Library is Open per Week
	Librarian	Assistants						
			$ c.		$ c.	$ c.	$ c.	
171	....	....	125 00	.15	67 37	94 87	160 78	2
172	....	....	75 00	.18	41 62	58 71	167 38	6
173	....	....	300 00	.30	87 13	142 54	409 86	16
174	....	....	575 90	.61	115 00	218 60	714 86	17
175	....	....	560 00	.50	87 82	125 23	840 52	32
176	....	1	8,807 50	.50	209 00	2,966 84	10,116 04	66
177	....	....	1,000 00	.34	159 00	255 90	1,176 71	32
178	....	....	300 00	.47	119 00	218 63	532 28	12
179	....	....	4,700 00	.17	159 00	867 19	5,453 12	36
180	....	....	88 52	.14	34 43	68 21	112 24	4
181	....	....	365 00	.45	63 49	167 01	490 66	7
182	....	....	900 00	.18	73 05	304 43	903 61	10
183	....	....	275 00	.55	59 24	69 16	392 61	22
184	....	....	660 00	.60	97 75	183 78	918 20	20
185	....	....	627 75	.75	50 10	188 27	742 47	24
186	....	....	250 00	.30	102 11	153 99	417 20	23
187	....	....	2,400 00	.48	140 89	358 25	2,647 37	27½
188	for	1937						
189	....	....	1,700 00	.45	111 55	371 05	2,027 22	30½
190	....	1	6,000 00	.25	209 00	2,832 70	7,300 32	48
191	Yes	142	477,140 00	.73	2,425 34	71,687 88	504,651 53	714
192								
193								
194								
195								
196								
197								
198								
199	Main	Library						
200								
201								
202								
203								
204								
205								
206								
207								
208								
209	....	....	2,900 00	.44	154 00	803 75	3,429 29	25
210	....	....	500 00	.30	136 55	219 17	721 65	12
211	....	....	1,200 00	.49	136 45	399 13	1,966 01	29½
212	....	....	2,368 50	.52	136 72	780 36	2,919 96	69
213	....	....	619 00	.50	65 40	149 33	1,110 26	13
214	Yes	....	4,273 00	.50	209 00	956 98	4,959 29	30
215	....	....	600 00	.61	103 27	212 48	867 87	31
216	....	....	4,202 72	.39	155 25	1,160 13	5,702 87	30
217	Yes	....	2,515 00	.50	186 00	442 59	2,892 04	25
218	....	....	1,931 11	.49	132 20	1,139 52	2,416 86	32½
219	Yes	7	46,312 00	.45	991 38	11,852 69	50,467 35	243
220								
221								
222								
223	Main	Library						
224								
225								
226								
227	....	....	1,000 00	.48	143 63	273 25	1,221 84	27½
228	....	1	5,520 00	.48	209 00	2,459 27	6,480 25	61
	....	234	1,102,491 49	....	28,292 34	239,255 56	1,215,931 82	....

ASSOCIATION PUBLIC LIBRARIES

Showing Statistics, 1937, and Legislative Grants Paid in 1938

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Hours	Legislative Grant	Amount Expended on Books	Total Expenditure
							$ c.	$ c.	$ c.
1	Agincourt	500	150	4,797	6,030	4	103 05	175 86	393 49
2	Allenford	....	No ann	ual report	for 1937				
3	Alliston	1,400	130	1,989	4,634	7½	28 79	41 86	193 59
4	Alton	500	30	3,713	1,160	2	18 44	32 69	112 01
5	Alvinston	650	125	1,595	5,533	11	44 56	7 63	283 02
6	Apple Hill	400	97	1,394	1,343	2	26 56	39 40	58 81
7	Arkona	400	51	3,183	2,983	5	57 05	70 87	189 94
8	Athens	700	180	4,994	3,511	3	32 05	105 98	186 21
9	Atwood	600	79	1,577	1,297	84	42 34	22 00	104 13
10	Auburn	150	50	2,087	1,159	5	40 00	10 00	199 28
11	Badjeros	300	31	912	423	33	8 92	10 86	32 16
12	Bala	450	109	1,651	814	10	25 98	70 13	174 71
13	Bancroft	914	227	4,070	11,165	8	124 00	315 15	525 05
14	Bayfield	400	112	1,797	2,330	78	33 84	50 33	139 38
15	Bayham	100	30	1,005	330	69	35 84	62 34	114 89
16	Baysville	390	58	1,922	2,207	2	31 07	49 30	82 51
17	Beachville	500	32	2,871	1,486	4	17 04	27 03	106 93
18	Beechwood	....	32	2,643	1,147	54	33 70	50 00	82 93
19	Belmore	....	No ann	ual report	for 1937				
20	Belwood	200	32	3,631	1,225	14	26 13	35 50	132 36
21	Birch Cliff	1,893	119	3,065	4,951	3½	89 51	77 62	161 03
22	Blenheim	1,650	185	7,688	9,653	17½	93 33	224 24	885 26
23	Blind River	2,700	265	2,721	6,058	5½	109 75	190 93	318 90
24	Bloomfield	600	184	3,385	6,794	9½	85 83	188 17	423 07
25	Blyth	....	No ann	ual report	for 1937				
26	Bobcaygeon	985	166	4,963	4,544	10	86 28	103 33	301 52
27	Bolton	582	38	3,687	2,210	2½	10 00	2 00	52 25
28	Bond Head	200	31	612	747	19	17 79	37 05	73 42
29	Bowmanville	4,000	347	8,623	18,990	33	151 50	344 00	958 73
30	Bradford	1,000	79	2,921	5,134	8	26 60	52 86	116 34
31	Brigden	500	113	2,422	1,364	6	28 45	29 06	100 63
32	Bronte	500	56	1,626	1,981	1	29 79	85 31	103 05
33	Brooklin	500	55	2,973	2,737	10	38 08	65 49	175 44
34	Brougham	200	46	1,559	1,850	72	26 05	42 74	85 54
35	Brown's Corners	350	38	1,251	1,615	2	18 30	59 84	244 06
36	Brownsville	250	112	1,946	3,990	4½	39 95	53 69	168 93
37	Brucefield	300	43	1,933	874	19	10 54	10 50	62 90
38	Burgessville	150	45	2,039	1,654	6	15 00	15 00	137 97
39	Burlington	3,500	321	5,884	21,927	8	118 15	346 65	909 43
40	Byron	450	93	567	2,107	2½	25 83	37 80	75 47
41	Caledon	300	38	3,483	1,043	2	9 00	31 61	78 16
42	Caledonia	1,280	75	1,286	1,080	4	35 26	84 27	122 11
43	Callander	1,200	59	1,535	2,698	6	15 85	64 35	88 02
44	Cambray	2,740	47	3,382	2,256	7	10 00	....	53 94
45	Camden East	200	50	1,932	1,388	2	46 44	31 97	73 69
46	Canfield	720	32	877	4,616	78	17 12	16 25	59 84
47	Cannington	786	54	4,234	4,761	15	34 17	34 40	181 82
48	Cargill	170	30	3,704	1,018	4	10 00	....	79 60
49	Carlisle	....	30	1,230	1,448	78	26 66	26 49	75 45
50	Castleton	500	34	562	1,127	2	10 65	18 00	46 98
51	Chapleau	2,200	142	2,778	6,712	6	40 35	58 37	241 90
52	Chatsworth	316	51	1,671	3,284	66	10 00	....	67 09
53	Cheapside	200	65	3,170	2,046	20	18 73	39 78	109 23
54	Chesterville	1,010	50	1,151	1,304	2	17 50	5 00	118 25
55	Claremont	457	59	3,745	1,375	12	51 92	74 58	153 15
56	Clarksburg	374	68	4,381	4,002	21½	73 12	153 23	387 23
57	Clarkson	....	No ann	ual report	for 1937				
58	Claude	....	No ann	ual report	for 1937				
59	Cobalt	....	No ann	ual report	for 1937				

ASSOCIATION PUBLIC LIBRARIES

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Hours	Legislative Grant	Amount Expended on Books	Total Expenditure
							$ c.	$ c.	$ c.
60	Cobourg	5,360	264	6,578	17,236	16	67 63	251 11	1,037 09
61	Cochrane	3,500	99	7,626	7,277	6½	30 00	59 52	206 75
62	Colborne	1,000	170	2,394	10,161	12	57 68	71 48	252 78
63	Coldstream	100	31	2,539	897	84	53 16	35 07	132 75
64	Coldwater	650	86	2,721	3,710	3	40 00	4 16	67 26
65	Comber	600	57	4,486	3,638	8½	81 95	119 11	293 58
66	Coniston	1,600	87	1,830	1,028	4	43 92	76 61	88 86
67	Cookstown	550	32	2,271	1,835	4	10 00	85	34 00
68	Copleston	....	No annual report for 1937						
69	Copper Cliff	3,900	1,583	7,619	12,413	14	104 65	185 03	757 37
70	Cottam	300	98	2,624	3,339	8	40 30	67 24	172 78
71	Courtright	350	260	984	5,359	66	39 71	40 93	133 37
72	Creemore	631	50	1,374	3,529	7	11 92	5 65	120 84
73	Delta	400	59	1,975	1,495	16	13 55	21 86	94 42
74	Depot Harbour	350	86	3,322	2,656	1	25 98	84 35	107 60
75	Dorchester	500	102	2,764	3,553	21	34 90	57 08	180 92
76	Drumbo	500	37	5,232	1,046	15	15 00	3 50	131 95
77	Dundalk	666	78	2,625	2,272	63½	25 11	23 93	133 93
78	Dungannon	500	63	2,775	5,322	54	59 05	108 37	169 34
79	Dunville	4,040	268	8,204	4,254	18½	97 52	237 84	695 98
80	Dutton	800	206	5,231	11,163	14½	77 18	188 39	565 15
81	Eagle River	....	No annual report for 1937						
82	East Linton	....	No annual report for 1937						
83	Elk Lake	....	Library re-organized in 1938				25 00	....	....
84	Elmwood	250	119	2,656	2,326	6	34 52	53 68	145 64
85	Embro	449	48	5,181	8,288	6¾	21 54	34 81	149 93
86	Emo	1,186	51	1,875	4,425	78	35 29	4 84	36 13
87	Englehart	1,200	35	1,040	1,859	2½	20 04	58 63	68 19
88	Ennotville	600	59	4,560	562	2	29 71	39 63	122 67
89	Espanola	2,000	190	4,534	3,427	2	17 83	22 82	59 09
90	Ethel	....	No annual report for 1937						
91	Fenwick	2,759	73	2,722	2,444	7½	18 58	73 12	96 60
92	Flesherton	....	No annual report for 1937						
93	Fordwich	240	60	949	3,331	10	16 63	50 23	128 59
94	Forester's Falls	800	32	2,776	1,182	64	10 00	20 00	76 80
95	Frankford	800	190	3,212	6,083	8	115 42	162 60	388 38
96	Fulton	800	30	579	570	72	21 28	44 54	53 54
97	Glamis	100	32	985	1,153	8	10 00	....	37 72
98	Glanworth	500	79	2,411	2,935	10	46 39	59 72	168 15
99	Glen Allan	700	40	1,233	1,452	9	10 00	12 30	33 72
100	Glen Morris	200	30	3,272	877	72	29 53	43 43	167 95
101	Gore's Landing	200	78	2,392	475	1½	63 07	98 14	124 95
102	Gorrie	300	41	1,706	1,968	8	10 00	....	36 32
103	Grafton	200	72	2,654	2,663	7	45 23	122 18	186 33
104	Granton	450	56	1,504	3,440	72	23 24	61 89	152 83
105	Haliburton	....	No annual report for 1937						
106	Harrietsville	90	50	3,059	1,560	60	32 94	51 26	110 89
107	Harrington	100	35	2,680	1,328	54	30 57	45 68	87 24
108	Harrow	967	71	2,678	2,920	9	55 94	75 63	356 97
109	Harrowsmith	150	31	1,069	1,492	4	10 00	....	77 15
110	Havelock	1,300	60	400	931	4	10 00	40 60	63 85
111	Hawkesbury	....	Library re-organized in 1938						
112	Hepworth	340	29	825	561	11½	15 00	....	66 95
113	Hickson	250	180	1,491	2,085	6	47 95	101 06	174 06
114	Highgate	350	80	2,577	3,708	21	51 79	88 77	259 21
115	Highland Creek	935	38	2,065	857	1½	10 00	....	33 50
116	Hillsdale	....	No annual report for 1937						
117	Hilton Beach	390	89	2,378	2,315	6	16 70	20 46	151 16

ASSOCIATION PUBLIC LIBRARIES

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Hours	Legislative Grant	Amount Expended on Books	Total Expenditure
							$ c.	$ c.	$ c.
118	Holstein	300	37	2,457	1,635	84	10 00	....	53 20
119	Honeywood	100	47	1,381	773	84	17 20	14 30	40 62
120	Hornepayne	....	No annual report for 1937						
121	Humber Bay	2,250	141	2,676	3,034	2	32 52	59 49	82 67
122	Huntsville	2,737	186	4,338	7,144	12	41 38	88 40	515 36
123	Hyde Park	200	37	170	775	5	10 00	7 60	38 72
124	Hyndford	400	49	2,184	2,034	18	47 00	30 61	107 73
125	Ilderton	500	74	1,756	3,301	14	37 27	46 01	144 03
126	Inglewood	....	No annual report for 1937						
127	Inkerman	....	No annual report for 1937						
128	Inwood	203	105	1,728	3,424	11	15 00	....	138 79
129	Iroquois	900	52	2,994	1,942	6	30 08	44 45	158 19
130	Iroquois Falls	1,302	170	5,832	8,356	7½	103 00	389 72	888 50
131	Islington	....	No annual report for 1937						
132	Ivanhoe	550	33	843	1,320	72	17 83	23 32	60 24
133	Jarvis	550	96	4,073	2,631	8½	38 04	89 45	200 55
134	Kars	....	No annual report for 1937						
135	Kearney	294	52	982	4,150	2	10 00	20 42	35 41
136	Kemble	280	62	2,003	1,443	3	15 83	32 20	111 36
137	Kimberley	375	90	888	1,199	2	5 00	....	12 31
138	Kinsale	100	53	1,064	970	3	48 16	67 72	88 52
139	Kintore	2,104	63	2,828	3,529	74	76 19	101 82	192 42
140	Kirkfield	200	66	1,928	2,691	19	45 40	89 85	104 88
141	Kirkland Lake	20,000	1,046	4,627	39,092	48	99 00	703 67	2,463 63
142	Kirkton	180	111	1,775	3,435	27	32 45	38 28	198 08
143	Komoka	200	33	2,191	1,274	72	23 70	49 70	159 79
144	Lakeside	2,000	115	1,767	4,978	84	52 48	79 97	123 61
145	Lambeth	500	65	2,236	2,257	8	26 24	14 49	147 23
146	Lefroy	2,950	37	1,956	1,303	4	14 20	25 06	45 41
147	Linwood	500	53	844	1,604	5½	22 57	35 48	82 61
148	Londesborough	150	33	508	1,240	76	16 38	32 66	61 26
149	Lorne Park	900	39	2,068	1,092	2	20 24	32 43	55 55
150	Lucan	615	83	2,164	2,489	8½	33 37	....	278 26
151	Madoc	1,000	189	4,619	9,078	8½	37 99	74 82	324 99
152	Mandaumin	400	47	2,503	5,274	4	56 57	67 81	192 51
153	Mauilla	200	112	6,679	2,138	19	56 15	93 47	262 17
154	Manotick	1,000	95	2,128	1,750	4½	12 26	51 00	89 75
155	Markham	....	No annual report for 1937						
156	Marmora	1,000	438	3,577	10,368	12	110 50	226 45	592 62
157	Martintown	600	38	1,676	816	7	10 00	9 18	36 55
158	Maxville	758	38	1,432	1,263	4	18 93	18 80	73 65
159	Maxwell	....	No annual report for 1937						
160	Melbourne	200	55	1,380	1,681	8	15 87	19 28	111 42
161	Mildmay	764	100	1,566	399	5	....	....	29 90
162	Millbank	500	59	1,787	1,035	6	34 00	....	13 11
163	Millgrove	100	20	1,377	468	1	15 00	....	15 92
164	Minden	300	38	2,551	1,155	2	14 09	5 35	65 95
165	Monkton	400	65	1,815	1,612	6	10 00	20 00	85 75
166	Mono Road	120	40	2,251	1,440	4	10 00	....	89 60
167	Moorefield	250	32	1,085	973	69	11 63	28 50	59 63
168	Morrisburg	1,400	145	4,529	3,993	8	74 20	124 78	438 80
169	Morriston	200	48	2,210	1,086	54	29 42	57 40	115 30
170	Mount Albert	600	70	2,193	2,902	10½	36 82	53 66	208 26
171	Mount Brydges	550	36	1,174	963	6	10 00	7 00	19 00
172	Mount Elgin	130	50	1,282	1,328	4	19 01	22 22	110 82
173	Mount Hope	....	No annual report for 1937						
174	Nanticoke	....	No annual report for 1937						
175	Napanee	3,416	282	8,108	20,758	28	137 37	478 90	1,524 33

ASSOCIATION PUBLIC LIBRARIES

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Hours	Legislative Grant	Amount Expended on Books	Total Expenditure
							$ c.	$ c.	$ c.
176	Napier	150	31	884	963	83	15 28	25 88	44 87
177	Newburg	420	66	3,108	4,615	4	10 00	10 00	116 42
178	Newbury	260	54	1,917	1,537	6	18 75	45 18	85 43
179	New Dundee	350	77	1,683	4,016	64	42 16	24 50	101 80
180	Newington	274	37	1,994	1,527	2	20 35	25 24	87 64
181	New Lowell	200	40	1,077	1,068	4	17 35	19 93	60 39
182	Norland	447	170	3,035	2,445	82	10 00	4 00	38 50
183	North Gower	350	52	1,588	3,023	24	31 40.	40 57	106 00
184	Odessa	700	30	1,648	1,480	73	25 75	....	149 26
185	Omemee	600	60	1,868	2,738	6	51 89	61 90	215 78
186	Orono	500	72	2,520	7,991	8	21 83	69 12	97 86
187	Osgoode	800	100	1,351	5,077	2	20 52	71 63	75 82
188	Palermo	100	32	647	1,192	72	13 12	21 90	21 90
189	Park Head	150	32	1,111	834	75	13 00	25 60	69 07
190	Pickering	600	114	2,703	2,088	11	58 72	83 15	227 21
191	Pinkerton	....	30	2,071	630	4	10 00	....	45 58
192	Plattsville	405	110	1,120	2,212	21	15 00	....	129 65
193	Plympton	....	128	2,193	3,795	3	31 51	33 02	105 23
194	Point Edward	1,200	48	4,569	2,463	4	10 00	....	35 85
195	Port Credit	1,500	392	5,813	9,157	5½	31 73	119 33	252 19
196	Port Dalhousie	....	Organiz	ed in 1938					
197	Port Dover	1,600	234	4,045	9,540	30	80 08	178 00	504 06
198	Port Lambton	1,000	42	635	1,908	72	20 84	3 49	85 91
199	Port Stanley	750	163	2,851	4,371	16½	28 72	25 98	304 63
200	Powassan	700	125	2,428	2,560	8	23 91	36 64	129 74
201	Princeton	350	48	2,652	4,762	8½	48 89	59 60	164 06
202	Queensville	300	33	2,901	1,360	5	10 00	9 95	70 84
203	Rebecca	200	47	908	2,270	84	44 30	105 93	145 35
204	Richard's Landing	....	No ann	ual report	for 1937				
205	Ridgetown	1,987	260	5,284	12,113	13	126 64	304 74	643 45
206	Ridgeway	900	213	3,766	4,100	7	62 78	103 55	331 00
207	Ripley	....	No ann	ual report	for 1937				
208	Rodney	786	201	2,509	6,119	8	37 14	57 11	166 85
209	Romney	1,456	88	5,208	3,127	78	44 50	73 85	114 59
210	Rossdale	150	48	1,680	3,975	42	28 38	63 60	194 59
211	St. George	600	94	7,534	2,521	65½	43 31	67 78	220 23
212	St. Helens	200	59	2,734	816	3½	20 69	29 30	62 95
213	Scarborough	400	45	7,144	2,149	2B.M	57 41	105 95	123 87
214	Schomberg	300	37	726	1,925	2	17 12	53 38	102 55
215	Scotland	400	90	2,590	1,731	18	21 68	23 62	149 58
216	Shedden	400	35	2,960	2,098	6½	15 54	10 80	169 09
217	Sheguiandah	200	37	704	1,135	72	18 13	25 97	55 64
218	Shetland	300	43	1,827	3,309	13	12 75	12 24	100 00
219	Singhampton	401	30	461	274	84	5 00	10 50	24 08
220	Smithville	600	67	2,191	2,333	10	16 77	8 23	112 28
221	Solina	300	30	1,131	439	6	13 62	21 86	24 92
222	Sombra	400	38	1,396	872	63	30 28	21 07	118 80
223	Southampton	1,935	248	7,174	4,258	6	65 60	204 55	293 51
224	Southcote	....	No ann	ual report	for 1937				
225	South Mountain	250	48	974	3,091	78	10 00	10 00	58 70
226	South Woodslee	250	34	1,382	1,792	4	34 85	83 33	174 41
227	Sparta	250	49	1,411	2,287	78	22 29	18 40	103 32
228	Sprucedale	275	36	1,053	1,422	2	18 29	30 39	57 15
229	Stevensville	400	50	1,643	531	4	15 00	....	120 01
230	Strathcona	375	58	2,335	925	2	31 04	38 58	475 08

ASSOCIATION PUBLIC LIBRARIES

No.	Library	Population	Borrowers	Volumes in Library	Circulation	Hours	Legislative Grant	Amount Expended on Books	Total Expenditure
							$ c.	$ c.	$ c.
231	Stratton	123	30	1,056	1,300	2½	45 52	11 05	78 80
232	Sunderland	438	77	2,303	2,630	3½	17 50	93 81	156 82
233	Sydenham	650	69	3,062	6,354	12	50 69	42 70	225 34
234	Thamesford	500	87	1,489	6,535	6	67 46	111 28	265 83
235	Thedford	600	80	2,125	6,808	16	66 21	98 18	201 39
236	Thessalon	1,624	124	631	4,386	6	10 00	489 44	605 94
237	Thornbury	782	131	2,914	5,691	16	44 80	114 68	466 63
238	Thorndale	300	37	2,279	3,060	12½	15 00	23 80	138 92
239	Thornhill	700	75	1,036	2,601	3	51 71	73 42	99 76
240	Thornton	....	Organized in 1938						
241	Tiverton	250	66	2,297	3,945	4	15 94	66 95	123 73
242	Tottenham	539	84	3,012	1,850	25	25 24	41 25	167 95
243	Tweed	1,350	95	4,029	4,301	5½	37 91	95 12	356 82
244	Underwood	314	45	2,185	2,530	70	26 83	53 28	84 88
245	Unionville	600	77	2,707	4,294	2	60 26	121 23	352 23
246	Vankleek Hill	1,600	67	1,297	1,799	9	53 70	83 24	172 56
247	Varna	500	36	1,412	1,150	14	44 37	87 72	139 17
248	Victoria	....	34	3,577	664	2	15 00	40 16	98 85
249	Victoria Road	....	9	900	550	14	15 00	....	28 50
250	Vittoria	250	84	532	1,288	78	61 25	76 71	119 07
251	Walton	....	No annual report for 1937						
252	Wardsville	243	30	2,914	3,411	6	32 79	45 99	127 81
253	Warkworth	500	78	2,644	4,490	8	15 17	11 12	105 92
254	Waterdown	940	56	1,875	2,363	6	32 84	76 63	155 46
255	Wellburn	250	48	579	694	2	18 96	25 23	48 81
256	Wellesley	500	98	2,866	3,017	3½	31 59	36 85	160 16
257	Wellington	900	211	3,319	12,406	11½	79 28	203 16	640 87
258	West Lorne	800	60	2,154	2,843	9	19 35	21 00	170 67
259	White Lake	90	30	968	469	5	5 00	....	3 70
260	Whitevale	300	55	1,935	1,790	5	25 17	4 85	50 01
261	Wiarton	1,743	150	4,317	3,507	30½	66 02	76 67	384 61
262	Williamstown	....	No annual report for 1937						
263	Winchester	1,063	50	2,782	3,118	9	19 12	57 65	164 52
264	Woodbridge	800	60	3,722	2,826	1	25 44	40 00	155 10
265	Woodville	425	116	2,703	1,497	15	56 89	73 73	255 94
266	Wroxeter	400	103	6,580	2,753	6	34 41	48 83	164 43
267	Wyoming	528	300	3,284	10,104	58	119 00	192 43	359 23
268	Zephyr	625	44	2,084	1,001	2½	13 84	32 78	77 33
269	Zurich	....	No annual report for 1937						
270	Elgin County	....	....	407	2,570	......	220 00	346 47	416 45
271	Lambton County	....	....	4,265	35,255	......	550 00	892 53	1,332 63
272	Middlesex County	....	....	1,730	13,636	......	400 00	821 99	963 31
273	Oxford County	....	....	190	1,378	......	88 89	175 15	208 83
274	Howick Township	....	....	637	637	......	34 30	101 51	107 10
	Total	190,044	22,595	617,566	857,565	......	9,486 96	17,771 24	47,951 76

APPENDIX L

REPORT OF THE PROVINCIAL SUPERVISOR OF MUSIC

There has been a gratifying increase in the number of schools receiving regular music instruction. Almost all elementary schools make some provision for the subject, the majority under skilled supervision of qualified teachers. The secondary schools are generally including Music as a part of the new Programme of Studies, the number qualifying for special grants being as follows:—1935, 17; 1936, 24; 1937, 46; 1938, 141.

The public, the teachers, and the students are being gradually acquainted with the attitude of the Department concerning music instruction. During the past two years I have had the opportunity of addressing the following groups:—Trustee Boards—1937, 15; 1938, 2; Service Clubs—1937, 9; 1938, 12; Teachers' Meetings—1937, 16; 1938, 14; School Assemblies—1937, 15; 1938, 18.

Music Festivals.—Music Festivals, both competitive and non-competitive, continue to spread throughout the Province, and to stimulate interest. More than 50 Festivals were held in the spring of 1938. I attended the following:—1937, 24; 1938, 28.

Radio.—A series of 10 radio programmes was sponsored during March and April by the Department of Education with the co-operation of the Canadian Broadcasting Corporation. Choral numbers by children from the elementary and secondary schools were broadcast from Toronto, Hamilton, Ottawa, Windsor, Kitchener, London, North Bay, Port Arthur, and Fort William.

On the Wednesday evening following Easter, in connection with the Ontario Educational Association, a concert was given in Massey Hall, Toronto, featuring the Provincial High School Orchestra, directed by I. W. Lomas, Hamilton; the Provincial High School Chorus, directed by G. R. Fenwick, Toronto; and the Provincial Public School Chorus, directed by W. B. Collier, Toronto. Approximately five hundred children from all parts of Ontario formed the various groups.

Teacher Training.—The summer sessions in Music at Toronto and London continued to grow in attendance and in the breadth of the courses offered. Comparative attendance figures are as follows:—

1935—Toronto, 264; London, 145. Total, 409.
1936—Toronto, 362; London, 191. Total, 553.
1937—Toronto, 481; London, 238. Total, 719.
1938—Toronto, 614; London, 356. Total, 970.

The following pamphlets have recently been prepared and distributed to the schools—Music in Rural Schools; An Introductory Course in Music Appreciation through Listening, for Elementary Schools; Operettas, Cantatas and Music Plays.

Statistics.—The following statistical information concerns the school year ending June 30th, 1938, and includes only those schools earning special grants for the teaching of Music. Many others provide a music course but are not at present qualifying for the grant.

In some parts of the Province redistribution of Inspectorates during the past few years makes it difficult to show the development of Music in those areas.

City Inspectorates	Total No. of Rooms	Rooms with Music			
		1934-35	1935-36	1936-37	1937-38
Brantford	102	....	8	9	102
Chatham	56	54	55	56	56
Hamilton	543	546	546	546	543
Kitchener	104	107	107	107	104
London	241	210	242	245	241
Ottawa	285	286	286	286	285
Peterborough	76	76	76	76	76
St. Catharines	90	91	91	91	90
Sarnia	65	21	10	....	28
Toronto	1,991	2,053	2,053	2,053	1,991
Welland	51	12	12	....	....
Windsor	312	315	315	315	312
Totals	3,916	3,771	3,801	3,784	3,828
Percentage of rooms with Music	....	94.5	95	95	97.7
County Inspectorates					
Brant and Norfolk (in part)	113	38	47	58	61
Bruce East	98	15	26	55	80
Bruce West	112	8	31	71	90
Carleton	179	40	65	50	57
Dufferin and Peel	111	68	98	83	87
Dundas and Grenville	101	4	4	5	11
Elgin E. and St. Thomas	137	25	27	47	52
Essex (No. 1)	125	37	20	24	48
Essex (No. 2)	126	23	38	47	89
Frontenac North	80	....	....	16	32
Frontenac South (No. 1)	91	19	23	35	49
Frontenac South (No. 2) and Kingston	104	78	80	80	89
Glengarry	96	....	....	19	41
Grey East	112	39	47	67	81
Grey North and Owen Sound	124	72	90	93	109
Grey South	117	2	2	52	51
Haldimand	104	19	20	35	81
Halton	124	82	80	95	100
Hastings Centre	100	26	26	27	29
Hastings North and Oshawa	134	81	81	86	86
Hastings South and Belleville	117	54	58	44	76
Huron East	110	25	45	47	48
Huron West	123	28	28	59	108
Kent (No. 1)	133	27	89	95	116
Kent (No. 2)	111	35	43	80	98
Lambton (No. 1)	108	12	12	39	62
Lambton (No. 2)	109	20	26	34	71
Lanark West	175	43	45	71	85
Leeds and Grenville (No. 1)	92	45	38	49	51
Leeds and Grenville (No. 2)	105	7	7	20	54
Leeds and Grenville (No. 3)	112	7	3	8	17
Lennox and Hastings South	101	1	1	18	32
Lincoln	112	54	55	84	91
Middlesex East	119	55	66	78	105
Middlesex West	123	14	30	41	55
Norfolk	124	72	67	77	89
Northumberland and Durham (No. 1)	103	93	97	98	102
Northumberland and Durham (No. 2)	99	42	61	85	91
Northumberland and Durham (No. 3)	113	50	71	77	101
Ontario North	102	29	27	50	42

County Inspectorates	Total No. of Rooms	Rooms with Music			
		1934-35	1935-36	1936-37	1937-38
Ontario South	100	56	56	62	50
Oxford North and Woodstock	111	46	49	90	105
Oxford South	115	56	74	88	109
Peel	143	114	100	102	138
Perth North	110	49	73	90	95
Perth South and Stratford	119	90	93	91	99
Peterborough East	100	46	66	64	77
Peterborough West	96	22	26	55	65
Prescott and Russell (No. 1)	66	....	....	8	28
Prescott and Russell (No. 2)	1	....	....	....	....
Prescott and Russell (No. 3)	18	....	....	....	....
Prescott and Russell (No. 4)	9	....	....	....	....
Prince Edward	95	17	29	26	30
Renfrew North	116	17	29	18	30
Renfrew South	115	12	12	23	23
Simcoe Centre	114	....	....	71	85
Simcoe East	123	63	66	36	50
Simcoe North	24	....	....	....	17
Simcoe South	115	15	23	64	72
Simcoe West	111	9	11	22	29
Stormont	114	....	....	33	38
Victoria West	83	45	64	65	67
Waterloo (No. 1)	113	84	54	54	67
Waterloo (No. 2) and Galt	117	46	76	84	96
Welland East and Niagara Falls	125	111	110	97	106
Welland South	134	9	13	23	88
Welland, Lincoln, Haldimand	110	23	28	49	84
Wellington North	112	21	35	71	65
Wellington South and Guelph	124	80	80	84	99
Wentworth	121	21	28	38	82
York (No. 1)	118	31	35	41	53
York (No. 2)	154	63	76	120	133
York (No. 3)	156	44	122	122	129
York (No. 4)	163	116	105	132	163
York (No. 5)	189	44	87	87	176
York (No. 6)	182	64	77	86	96
Totals	8,495	2,803	3,371	4,295	5,491
Percentage of rooms with Music	....	33	40	51.5	64.7
District Inspectorates					
Division I	99	11	12	26	44
" II	105	29	3	37	35
" Division III and Fort William	144	19	108	95	96
" IV and Port Arthur	141	25	27	32	76
" V and Sault Ste. Marie	131	....	....	57	71
" VI	118	7	28	29	35
" VII (No. 1) and Sudbury	126	....	....	6	46
" VII (No. 2)	18	....	....	....	....
" VIII	86	....	8	11	54
" IX	150	40	44	82	85
" X	151	62	71	....	91
" XI	93	....	....	55	23
" XII (No. 1) and North Bay	115	50	46	46	44
" XII (No. 2)	2	....	....	....	....
" XII (No. 3)	29	....	....	....	....
" XIII	96	16	16	12	21
" XIV	91	....	....	3	18
" XV	93	10	10	10	28
" XVI	89	....	....	16	16
Totals	1,877	269	373	517	783
Percentage of rooms with Music	....	15	21	28.6	41.7

Separate School Inspectorates	Total No. of Rooms	Rooms with Music			
		1934-35	1935-36	1936-37	1937-38
Division I	128	26	43	24	70
" II	125	16	7	7	....
" III	121	....	....	27	....
" IV	97	....	....	....	....
" V	146	....	....	27	18
" VI	173	....	....	24	38
" VII	110	....	....	....	....
" VIII	103	....	....	29	35
" IX	139	2	9	34	62
" X	155	81	87	101	104
" XI	155	4	135	122	109
" XII	133	27	31	36	28
" XIII and XIV	358	320	324	333	28
" XV	131	58	52	62	64
" XVI	134	....	5	9	22
" XVII	152	....	....	47	49
" XVIII	146	....	....	....	....
" XIX	120	....	....	....	8
" XX	101	....	....	....	....
" XXI	116	....	....	....	....
Totals	2,956	534	693	882	627
Percentage of rooms with Music	....	18	24	30	21
Grand Totals	17,244	7,377	8,238	9,478	10,729
Percentage of rooms with Music	....	43.2	48.2	55.5	62.2

Respectfully submitted,

G. R. FENWICK,
Provincial Supervisor of Music.

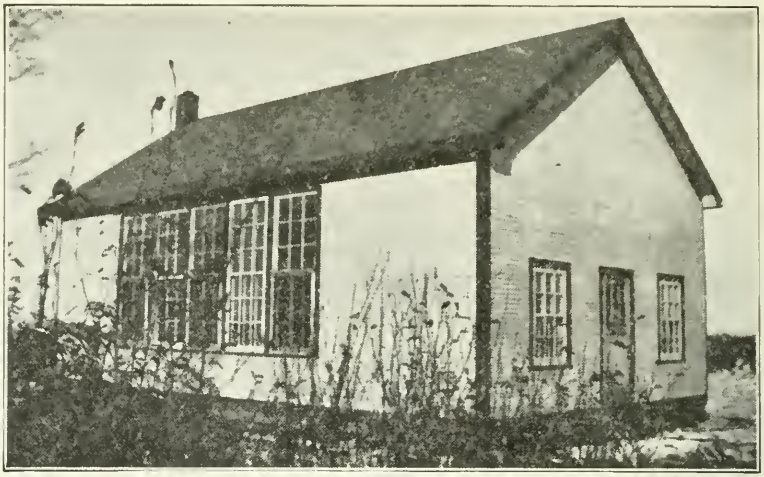
Toronto, January 12th, 1939.

PART II

Statistics

of

The Provincially-Controlled Schools of Ontario



ONTARIO'S MOST NORTHERLY SCHOOL—MOOSONEE

Moosonee, situated at the terminus of the Temiskaming and Northern Ontario Railway on James Bay, is one of the early Hudson's Bay Company posts. The present school was built in 1934, and is well equipped. The attendance is about 15. Except in the summer months, there is a train in and out but once a month. Moosonee has telephone connection with southern points, and the radio supplies the daily news and amusement. In case of necessity a plane can be called from Cochrane in a very short time.

THE SCHOOL CAR

Six of these "Schools on Wheels" carry education and social betterment to scores of small communities scattered along the railway lines in Northern Ontario. Each car has a definite route of about 175 miles, which must be covered in at least six weeks. The length of time at each stop varies from four days to a week, depending upon the number of pupils, 90 per cent. of whom are non-English speaking. The first two days of a stop are usually spent discussing the work previously assigned. The rest of the time is well occupied with the teaching of the most difficult parts of the new work to be left as homework. Each pupil receives a detailed outline of the work he is expected to do, with a definite time-table to be followed until the car returns. Any difficulties which arise during the interval the Car is away are solved by writing the teacher, who endeavours to explain the problem by mail. Supplementary Reading is left with each pupil. The Department supplies all text books, scribblers, pens, and paper free. The School Car Auxiliary of Toronto helps the needy families. Many parents attend night classes, where not only English, spelling, writing, and arithmetic are taught them, but troublesome occurrences of daily life are discussed.

Pictures Courtesy "Canadian School Journal".

TERMINOLOGY

Assessment—The valuation placed upon property for tax levy purposes. The County Council generally makes an equalization annually of local assessment figures, and this equalized figure is used in the computation of Legislative grants to schools.

Attendance Efficiency—The percentage relation of the actual days attended to the perfect aggregate.

Auxiliary Classes—These are provided for pupils whose abilities do not lie along academic lines.

Capital Charges—Debenture instalments, or sinking fund deposits, made on debt incurred for school buildings and equipment.

Consolidated School—An amalgamation of two or more rural schools, or of rural schools with a village or town school, either for the purpose of strengthening the means of school support where the original schools were small or poor, or for the purpose of providing a graded school and other advantages, such as conveyance, instead of the original one-room school.

Compulsory School Age—Children 8 to 14 must attend full time; children from 5 to 8, if enrolled, must attend full time to the end of the school term for which they are enrolled. Adolescents, 14 to 16, who have not attained University matriculation standing must attend full time; those exempted on the plea of circumstances compelling them to go to work must attend part time (400 hours a year) in municipalities where part-time courses are provided. Urban municipalities with a population of 5,000 and over, are required to provide part-time courses.

Cost per Pupil-Day—The cost of educating one pupil of actual attendance, for one day. It is found by dividing the total cost of education of the group of pupils concerned by the actual aggregate attendance of this group for the period under consideration.

District—The eleven defined areas of Northern Ontario which do not constitute municipal units for any purpose. With the exception of Parry Sound and Muskoka, these areas lie north of the French River and Lake Nipissing. This region is newer and more sparsely populated than Southern Ontario, and produces most of Ontario's extensive mineral and forest wealth.

Enrolment—The number recorded on the school register as in active attendance. The school census for the Province is now taken annually on the last school day in May.

Free School Age—The Public Schools are free to all residents (except Separate School supporters) between the ages of 5 and 21. The Separate Schools are free to separate school supporters.

Fifth Classes—Grades IX and X in Elementary Schools, doing work similar to the first two grades of Secondary Schools. The majority of these classes are in rural areas.

General Maintenance—Ordinary, current expense, as opposed to capital outlays and debenture charges.

Inspectorate—The area under the supervision of a local Departmental representative.

School—Provincially controlled schools may be classified as:

I. **Elementary**—Those doing the work of the first eight grades. A few have Fifth Classes (see above).
  (a) **Public**—Non-sectarian.
  (b) **R.C. Separate**—For the children of Roman Catholics.
  (c) **Protestant Separate**—For the children of Protestants in centres preponderantly Roman Catholic.

II. **Secondary**—Those doing the work of Grades IX to University Matriculation.
  (a) **Academic:**
    1. **Collegiate Institutes.**
    3. **High Schools.**
    3. **Continuation Schools.**

    These schools are differentiated by minimum staff requirements. Continuation Schools are located mostly in villages or rural areas. Academic Courses are designed to lead to Universities and Teacher-Training Schools.

  (b) **Vocational:**
    1. **Technical High School.**
    2. **Commercial High School.**

    In the smaller centres the above two are combined in the one school. Vocational courses are designed to lead to industry, trade and commerce.

School District—The area over which a school board has jurisdiction.

School Year—The school year consists of two terms, September 1 to December 22, and January 3 to June 30. In addition to the intervals between these terms there is a vacation of one week following Easter. In this Report statistics cover the school year where possible. Financial data remains on the calendar year basis.

STATISTICS OF THE PROVINCIALLY-CONTROLLED SCHOOLS OF ONTARIO

SUMMARY FOR 1937

	ELEMENTARY		SECONDARY			SENIOR AUXILIARY	TOTALS
	Public	Separate	Continuation	†High	Vocational		
Day Schools—Number	6,377	832	206	227	59	5	7,706
Day Pupils—May Enrolment, 1938	454,509	102,505	9,251	68,700	36,282	1,449	672,696
Average Attendance for the year	404,882	94,360	8,774	65,502	33,099	1,234	607,851
Attendance Efficiency Percentage for the year	91.22	92.80	93.42	95.72	93.34	87.19	92.28
Day Teachers—Number	14,540	2,953	504	2,581	1,531	68	‡21,789
Male	3,459	314	249	1,355	952	35	‡6,154
Female	11,081	2,639	255	1,226	579	33	‡15,635
Percentage Male	23.79	10.63	49.40	52.50	62.18	51.47	28.24
Percentage Female	76.21	89.37	50.60	47.50	37.82	48.53	71.76
University Graduates	585	60	290	2,450	1,117	13	‡4,162
Gross Municipal Operating Expenditures:							
(a) Teachers' Salaries	$16,946,178	$2,268,275	$570,225	$5,194,012	$3,323,470	$171,451	$28,473,611
(b) Other Current Expenditures	6,262,374	1,008,981	187,257	1,415,427	1,006,426	77,850	9,958,315
Total Current Expenditures	$23,208,552	$3,277,256	$757,482	$6,609,439	$4,329,896	$249,301	$38,431,926
(c) Capital Charges	$3,444,068	$624,855	$137,890	$1,544,333	$1,227,764	$23,043	$7,001,953
Total Gross Expenditures	$26,652,620	$3,902,111	$895,372	$8,153,772	$5,557,660	$272,344	$45,433,879
Legislative Grants	$3,048,392	$728,178	$192,374	$654,713	$978,976	$42,748	$5,645,381
Net Municipal Operating Expenditures	$23,604,228	$3,173,933	$702,998	$7,499,059	$4,578,684	$229,596	$39,788,498
Teacher's Salaries' percentage of Total Current Expenditure	73.02	69.21	75.28	78.58	76.76	68.77	74.08
Capital Outlays	$945,670	$372,091	$32,069	$159,576	$226,289	$2,901	$1,738,596
Fifth Classes:							
Schools Conducting Fifth Class Work	1,330	191					1,521
Enrolment in these Fifth Classes	6,458	4,456					10,914
Classes Qualifying for Legislative Grant	417	106					523
Enrolment in these Qualifying Fifth Classes	2,800	1,155					3,955
Grading of Qualifying Classes—A	93	66					159
B	138	22					160
C	186	18					201
Night Schools:							
Number	11			6	45	1	69
Student Enrolment	656			1,588	31,880	203	34,327
Number of Teachers	21			69	982	8	1,080

Financial data covers the calendar year 1937. Other data the school year 1937-38. †Including Collegiate Institutes. ‡Excluding duplications.

AVERAGE COSTS PER PUPIL-DAY, 1937, AND COMPARISON WITH 1936

A—Elementary Schools

Type	Subdivision	Gross Cost per Pupil-Day (in cents)						Legislative Share	
		Current[1]		Capital[2]		Total			
		1937	1936	1937	1936	1937	1936	1937	1936
Public	All Rural	26.8	26.2	1.8	2.0	28.6	28.2	7.2	6.4
	Low Attendance	52.2	50.2	......	3.8	52.2	54.0	15.9	14.7
	Ordinary Rural	26.0	26.2	1.3	1.5	27.3	27.7	6.9	6.3
	Consolidated	40.9	38.0	7.3	6.2	48.2	44.2	16.7	13.2
	Large Suburban and semi-urban	30.5	26.4	4.6	5.0	35.1	31.4	8.5	6.9
	All Urban	33.9	30.7	6.6	6.5	40.5	37.2	2.0	1.5
	Town	23.8	22.3	4.1	3.9	27.9	26.2	2.3	1.9
	City	38.4	34.2	7.7	7.7	46.1	41.9	1.6	1.2
	All Public	31.1	29.0	4.6	4.8	35.7	33.8	4.1	3.4
R.C. Separate	All Rural	21.0	20.4	2.5	2.5	23.5	22.9	9.7	8.2
	All Urban	18.0	17.5	3.9	4.1	21.9	21.6	2.6	1.9
	Town	17.2	16.7	2.5	2.4	19.7	19.1	4.4	3.4
	City	18.2	17.8	4.5	5.0	22.7	22.8	1.6	1.1
	All Separate	18.6	18.1	3.6	3.8	22.2	21.9	4.1	3.3

B—Secondary Schools

Continuation	All	46.7	44.9	8.5	7.7	55.2	52.6	11.9	11.3
High Schools and Collegiate Institutes	High	50.7	47.9	12.8	10.4	63.5	58.3	9.5	7.2
	Collegiate	60.0	53.7	13.9	12.8	73.9	66.5	3.3	2.1
	All	56.5	51.5	13.4	11.9	69.9	63.4	5.6	4.0
Vocational	Purely Technical	102.9	95.0	22.9	25.6	125.8	120.6	24.9	23.1
	Purely Commercial	61.6	57.2	15.0	14.9	76.6	72.1	7.1	5.9
	Combined Vocational (Com. and Tech.)	65.2	63.3	22.1	21.8	87.3	85.1	24.0	20.6
	All	75.3	64.3	21.3	19.0	96.6	83.3	19.7	15.1

C—Special Schools

Senior Auxiliary	All	112.5	90.5	10.4	9.0	122.9	99.5	19.3	16.2

[1] General Maintenance.

[2] Debt Charges.

EDUCATION CONTRASTED WITH OTHER MUNICIPAL SERVICES IN ONTARIO CITIES, 1937

(Percentages)

Cities	Education	Debenture Debt Charges	Protection	Unemployment Relief	Charity and Welfare	Administration	Health and Sanitation	Deficits and Uncollectible Taxes	Highways and Streets	Recreation	Miscellaneous	Public Services
Belleville	31.6	27.5	9.9	8.7	4.4	6.7	3.0	3.8	2.8	.8	......	.8
Brantford	22.3	33.9	11.2	5.8	7.2	5.8	5.0	......	4.5	1.7	.6	1.7
Chatham	32.0	17.2	16.2	6.6	7.2	4.7	2.4	1.9	6.4	3.0	1.1	3.0
Fort William	29.4	26.5	10.2	8.8	3.2	7.2	1.4	4.1	4.5	1.4	1.7	1.4
Galt	25.6	34.9	9.8	7.3	4.2	4.2	2.3	1.9	3.0	1.9	3.1	1.9
Guelph	21.3	30.1	9.2	12.7	5.9	5.2	2.7	6.4	3.0	2.0	.5	2.0
Hamilton	25.7	33.3	11.0	2.2	9.9	5.3	3.8	1.5	1.6	.8	3.0	.8
Kingston	25.8	27.7	10.2	10.3	5.5	6.5	1.8	5.6	3.5	1.2	.9	1.2
Kitchener	24.2	31.6	8.4	10.8	4.6	5.8	4.4	2.5	2.7	1.4	2.2	1.4
London	23.4	24.6	8.8	10.7	6.6	5.8	3.8	10.7	3.3	1.3	.1	1.3
Niagara Falls	20.4	20.8	8.0	23.7	2.4	6.8	2.6	7.1	4.3	2.1	.8	2.1
North Bay	25.2	31.1	6.7	10.8	4.3	6.2	1.8	9.2	1.6	.9	1.5	.9
Oshawa	24.4	31.5	7.8	16.5	2.2	4.3	2.1	5.1	2.7	.7	2.5	.7
Ottawa	21.8	24.3	8.7	19.2	10.1	3.7	2.4	1.1	4.2	1.0	2.6	1.0
Owen Sound	33.2	19.3	9.9	9.5	5.1	6.9	2.4	.4	5.4	1.8	4.0	1.8
Peterborough	29.4	28.2	10.7	9.2	3.4	4.5	2.9	.9	7.0	1.2	2.0	1.2
Port Arthur	27.6	24.2	10.9	11.9	6.1	6.0	2.2	3.1	4.7	1.0	.9	1.0
Sarnia	30.8	23.4	10.6	5.3	3.3	6.6	2.9	8.0	5.0	1.5	1.1	1.5
Sault Ste. Marie	36.6	19.0	10.1	8.9	5.3	5.5	1.8	4.8	5.3	.9	.7	.9
Stratford	25.8	24.5	9.8	15.6	2.8	5.8	4.9	3.2	3.0	2.9	.1	2.9
Sudbury	24.8	25.7	9.9	6.3	3.1	10.5	5.0	2.2	7.8	.7	2.7	.7
St. Catharines	23.8	17.3	8.9	19.0	3.9	5.9	3.0	4.8	3.9	2.5	5.6	2.5
St. Thomas	27.3	21.6	11.3	9.8	4.8	8.1	6.4	4.2	2.9	1.3	.6	1.3
Toronto	24.2	36.7	13.3	2.2	5.0	3.8	5.5	2.4	2.6	1.0	1.0	1.0
Welland	28.2	34.5	7.5	10.8	2.6	4.7	1.5	1.4	4.6	1.5	1.4	1.5
Windsor	22.9	13.8	9.0	30.4	3.6	6.6	3.1	5.0	2.1	1.0	1.4	1.0
Woodstock	30.2	28.4	11.0	6.8	4.5	6.4	4.2	......	4.1	1.5	......	1.5
Averages	24.5	30.8	11.4	8.1	5.8	4.7	4.2	3.1	3.0	1.8	1.5	1.1

Basic figures, courtesy Dept. of Municipal Affairs.

CONTENTS

Education—General maintenance, and debenture charges.

Debenture Debt Charges—General, local improvement, public utility, housing, etc., but excluding Schools.

Protection—Administration of justice, fire protection, hydrant rental, street lighting, traffic control.

Unemployment Relief—Gross cost, including administration.

Charity and Welfare—Charity, Child Welfare, grants, hospitalization, House of Refuge, Mothers' Allowances, Old Age Pensions.

Administration—Auditors, tax discounts, elections, interest on loans, legal costs, maintenance of municipal buildings, grants (other than Charity and Welfare), indemnities to Mayor and Council, office expenses.

Health and Sanitation—Board of Health expenditures, garbage collections, sewer maintenance.

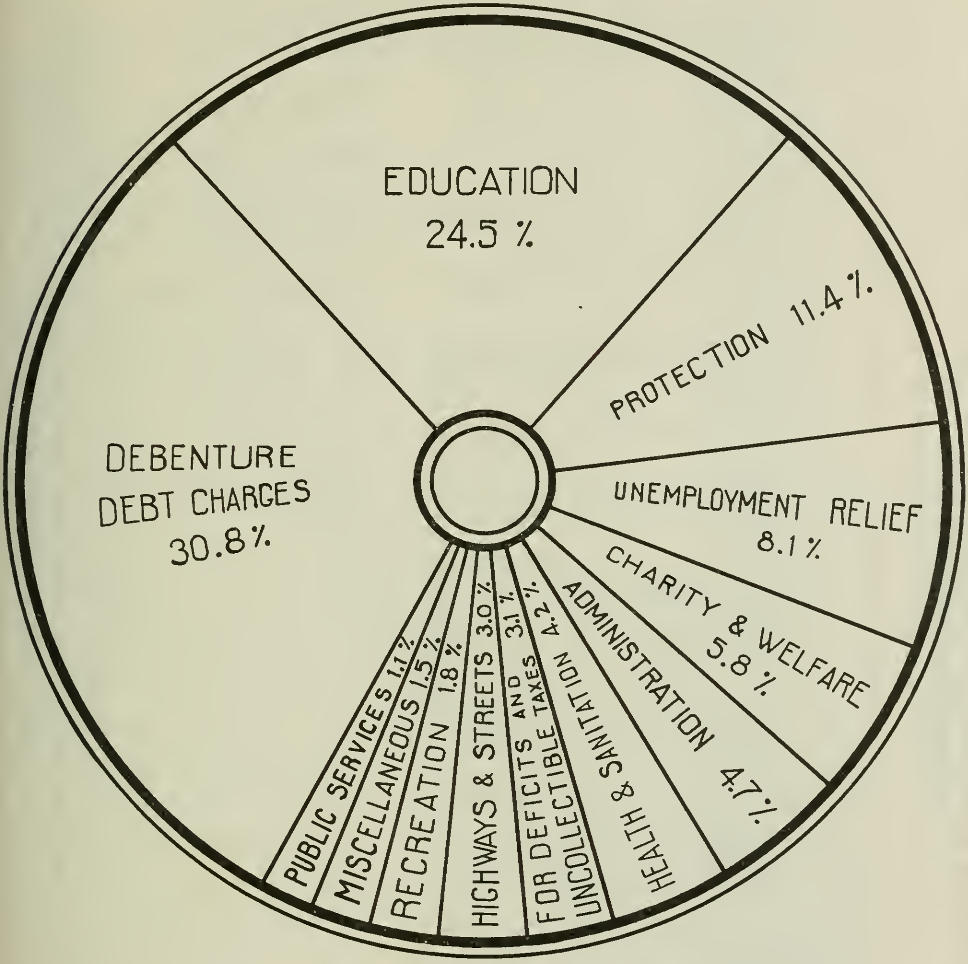
Deficits and Uncollectible Taxes—Provision for tax sale purchases, uncollected and uncollectible taxes, deficits of public Utilities.

Highways and Streets—Cleaning, watering and oiling; repairs and maintenance.

Recreation—Parks, playgrounds, rinks, etc.

Miscellaneous—Payments to other municipalities, payments to County on roads, etc.

Public Services—Cemeteries, Housing Commission deficits, Library costs.



EDUCATION CONTRASTED WITH OTHER MUNICIPAL SERVICES
ONTARIO CITIES, 1937

Graph 1.

DISTRIBUTION OF PUPILS IN ONTARIO PROVINCIALLY-CONTROLLED SCHOOLS, MAY,* 1938

A—STANDARD GRADE PUPILS

		Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 and over	Totals by Sexes	Totals	Percentage of Group A
KINDERGARTEN..	Boys	21	4,079	3,458	225	2	......	......	......	......	......	......	......	......	......	......	......	7,785	15,076	**2.28**
	Girls	19	3,912	3,192	168	......	......	......	......	......	......	......	......	......	......	......	......	7,291		
KINDERGARTEN PRIMARY.......	Boys	4	1,216	2,769	1,104	291	71	27	18	11	7	......	......	......	......	......	......	5,518	10,594	**1.60**
	Girls	4	1,170	2,719	946	163	37	16	13	5	3	......	......	......	......	......	......	5,076		
GRADE I.......	Boys	26	1,329	14,881	19,520	7,276	2,219	829	351	177	98	39	19	7	5	2	......	46,778	88,339	**13.35**
	Girls	44	1,382	14,797	17,591	5,594	1,362	421	173	102	60	17	12	5	1	......	......	41,561		
GRADE II.....	Boys	......	17	458	9,194	15,475	7,430	2,949	1,012	436	213	80	24	10	2	......	......	37,300	71,573	**10.82**
	Girls	......	21	649	10,169	14,723	5,844	1,863	590	248	97	45	15	8	1	......	......	34,273		
GRADE III....	Boys	......	......	11	657	6,355	9,707	5,428	2,421	998	385	169	64	14	3	......	......	26,212	50,040	**7.56**
	Girls	......	......	13	926	7,220	9,182	4,058	1,562	540	214	71	31	7	3	1	......	23,828		
GRADE IV....	Boys	......	......	......	56	2,392	7,349	7,128	4,122	2,164	990	407	140	19	5	1	1	24,774	48,147	**7.27**
	Girls	......	......	......	105	3,402	8,372	6,213	3,189	1,380	487	151	52	16	5	......	1	23,373		
GRADE V.....	Boys	......	......	......	1	180	4,476	11,468	9,184	5,850	3,141	1,507	390	79	17	2	......	36,295	71,766	**10.84**
	Girls	......	......	......	1	247	5,809	12,830	8,424	4,465	2,582	856	214	36	7	......	......	35,471		
GRADE VI....	Boys	......	......	......	......	14	211	4,099	9,975	8,859	6,111	3,168	1,213	186	32	1	......	33,869	66,966	**10.12**
	Girls	......	......	......	......	23	377	5,600	11,229	8,509	4,455	2,198	587	104	14	1	......	33,097		
GRADE VII...	Boys	......	......	......	......	......	13	324	4,022	9,350	8,452	5,506	2,740	610	70	5	......	31,092	62,059	**9.38**
	Girls	......	......	......	......	1	19	404	5,209	10,573	8,141	4,439	1,836	306	35	3	1	30,967		
GRADE VIII..	Boys	......	......	......	......	......	......	15	391	3,860	9,011	7,937	4,918	1,614	224	21	7	27,998	57,648	**8.71**
	Girls	......	......	......	......	......	4	28	580	5,267	10,557	7,772	4,116	1,188	120	14	4	29,650		
GRADE IX....	Boys	......	......	......	......	1	2	1	36	497	3,441	6,644	5,975	3,057	1,094	212	40	21,000	44,101	**6.66**
	Girls	......	......	......	......	......	......	......	57	693	4,696	8,043	6,013	2,765	678	139	17	23,101		
GRADE X.....	Boys	......	......	......	......	......	......	......	......	17	426	2,591	4,842	4,044	2,141	745	232	15,038	32,154	**4.86**
	Girls	......	......	......	......	......	......	......	1	44	606	3,529	6,078	4,343	1,793	573	149	17,116		
GRADE XI....	Boys	......	......	......	......	......	......	......	......	......	21	308	1,778	3,346	2,587	1,271	628	9,939	21,396	**3.23**
	Girls	......	......	......	......	......	......	......	......	......	36	440	2,649	4,016	2,662	1,153	501	11,457		
GRADE XII...	Boys	......	......	......	......	......	......	......	......	......	15	148	574	1,552	2,080	1,338	753	6,460	13,945	**2.11**
	Girls	......	......	......	......	......	......	......	......	......	1	26	400	1,824	2,716	1,582	936	7,485		
GRADE XIII..	Boys	......	......	......	......	......	......	......	......	......	......	......	30	227	937	1,365	1,449	4,008	8,053	**1.21**
	Girls	......	......	......	......	......	......	......	......	......	......	......	38	317	1,201	1,383	1,106	4,045		
TOTALS BY SEXES........	Boys	51	6,641	21,577	30,757	31,986	31,478	32,268	31,532	32,219	32,311	28,504	22,707	14,765	9,197	4,963	3,110	334,066		
	Girls	67	6,485	21,370	29,906	31,373	31,006	31,433	31,027	31,826	31,935	27,587	22,041	14,935	9,236	4,849	2,715	327,791		
TOTALS—GROUP A...		**118**	**13,126**	**42,947**	**60,663**	**63,359**	**62,484**	**63,701**	**62,559**	**64,045**	**64,246**	**56,091**	**44,748**	**29,700**	**18,433**	**9,812**	**5,825**	**661,857**		
PERCENTAGES.......		**.02**	**1.98**	**6.49**	**9.17**	**9.57**	**9.44**	**9.62**	**9.45**	**9.68**	**9.71**	**8.47**	**6.76**	**4.49**	**2.79**	**1.48**	**.88**			

*Last school day in May.

B—PRE-VOCATIONAL AND SPECIAL VOCATIONAL PUPILS

		Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 and over	Totals by Sexes	Totals
PRE-VOCATIONAL.....	Boys	......	......	......	......	......	......	......	......	3	19	64	194	211	72	13	5	581	787
	Girls	......	......	......	......	......	......	......	......	2	11	53	75	39	24	2	......	206	
SPECIAL VOCATIONAL.	Boys	......	......	......	......	......	......	......	......	......	......	......	......	63	149	214	387	813	2,409
	Girls	......	......	......	......	......	......	......	......	......	......	......	......	134	354	466	642	1,596	
TOTALS—GROUP B...		......	......	......	......	......	......	......	......	5	30	117	269	447	599	695	1,034	3,196	

C—JUNIOR AND SENIOR AUXILIARY CLASSES

		Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 and over	Totals by Sexes	Totals
JUNIOR.......	Boys	......	......	7	42	105	209	333	380	480	450	500	522	184	46	7	5	3,270	4,804
	Girls	......	......	5	10	76	129	182	223	267	202	207	152	51	15	12	3	1,534	
SENIOR.......	Boys	......	......	......	......	......	......	......	......	9	138	246	294	107	24	2	9	829	1,449
	Girls	......	......	......	......	......	......	......	......	11	112	255	181	51	9	1	......	620	
TOTALS—GROUP C...		......	......	12	52	181	338	515	603	767	902	1,208	1,149	393	94	22	17	6,253	

SUMMARY

	Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 and over	Totals by Sexes	Totals
Boys..................	51	6,641	21,584	30,799	32,091	31,687	32,601	31,912	32,711	32,918	29,314	23,717	15,330	9,488	5,199	3,516	339,559	
Girls..................	67	6,485	21,375	29,916	31,449	31,135	31,615	31,250	32,106	32,260	28,102	22,449	15,210	9,638	5,330	3,360	331,747	
GRAND TOTALS........	**118**	**13,126**	**42,959**	**60,715**	**63,540**	**62,822**	**64,216**	**63,162**	**64,817**	**65,178**	**57,416**	**46,166**	**30,540**	**19,126**	**10,529**	**6,876**	**671,306***	
PERCENTAGES.......	**.02**	**1.96**	**6.40**	**9.04**	**9.46**	**9.36**	**9.57**	**9.41**	**9.66**	**9.71**	**8.55**	**6.88**	**4.55**	**2.85**	**1.57**	**1.02**		

*In addition, there were 1,390 Part-Time Vocational Pupils, unclassified.

COMPARATIVE SCHOOL STATISTICS 1912-1937

I.—ELEMENTARY SCHOOLS

1.—Schools and Pupils

Year	Schools in Operation			Enrolment for the year	Enrolment Distribution Percentages*						Average Daily Attendance	Attendance Efficiency Percentage	May Enrolment	Grade Distribution Percentages*							
					(a)		(b)		(c)												
	Total	Rural	Urban		Pub.	Sep.	Male	Female	Rural	Urban				Kgn.	K.P.	I & II	III & IV	V & VI	VII & VIII	IX & X	Auxiliary
1912........	6,452	5,622	830	467,022	86.88	13.12	51.22	48.78	48.66	51.34	291,210	....	....	......	......	41.42	19.85	19.02	18.24	1.47	......
1917........	6,651	5,735	916	527,664	86.73	13.27	50.46	49.54	41.98	58.02	342,571	....	....	3.13	.53	37.77	20.09	19.91	17.43	1.14	......
1922........	6,945	5,957	988	601,485	85.28	14.72	50.90	49.10	40.08	59.92	425,018	86.80	....	2.20	2.00	33.86	18.69	21.25	20.48	1.52	......
1927........	7,036	6,002	1,034	634,592	84.07	15.93	51.08	48.92	38.46	61.54	456,978	88.49	....	2.53	2.31	30.75	16.26	22.69	23.91	1.55	......
1932........	7,188	6,139	1,049	664,427	82.91	17.09	51.23	48.77	37.77	62.23	501,917	90.09	580,612	2.72	2.12	30.19	17.68	25.60	20.02	1.67	......
1936-37.....	7,172	6,132	1,010	....	81.94	18.06	51.52	48.48	37.43	62.57	499,729	89.96	555,713	2.68	2.53	28.82	16.52	25.22	21.70	1.80	.73
1937-38.....	7,162	6,122	1,010	....	81.60	18.40	51.14	48.86	37.64	62.36	499,242	91.51	557,014	2.71	1.90	28.73	17.62	24.90	21.49	1.79	.86

*Commencing with 1932 these are based on May enrolment.

2. Teachers and Certificates

Year	Teachers										Certificates										
	No. of Teachers	Male	Female	Percentage Distribution						University Graduates	General*						Special**				
				(a)		(b)		(c)													
				Pub.	Sep.	Male	Female	Rural	Urban		1st Class	2nd Class	3rd Class	District	Permanent Ungraded	Temporary	Kindergarten †	Man. Tr.	Ho. Science	Auxiliary Class ‡	Music
1912............	11,128	1,511	9,617	88.89	11.11	13.58	86.42	55.20	44.80	83	674	6,419	1,804	317	220	1,323	371	......	......	......	....
1917............	12,762	1,317	11,445	88.31	11.66	10.32	89.68	50.58	49.42	140	1,106	8,784	1,317	292	213	603	376	33	38	......	....
1922............	14,872	1,740	13,132	86.84	13.16	11.70	88.30	47.30	52.70	182	1,273	10,825	1,190	407	156	409	471	63	78	......	....
1927............	16,346	2,266	14,080	85.39	14.61	13.86	86.14	46.42	53.58	252	2,587	12,120	600	43	129	297	491	75	79	214	22
1932............	17,340	2,805	14,535	84.21	15.79	16.18	83.82	45.57	54.43	325	4,659	11,302	543	29	88	229	497	94	95	314	51
1936-37.........	17,536	3,640	13,896	83.23	16.77	20.76	79.24	45.72	54.28	549	7,477	8,710	249	6	56	63	519	106	100	175	††35
1937-38.........	17,493	3,773	13,720	83.12	16.88	21.57	78.43	45.86	54.14	645	8,138	8,015	217	5	49	76	497	107	106	191	††64

*Highest Only. **Listed only when holder devotes whole time to such work. ‡ Teachers of all types of Auxiliary Classes. † Directors and Assistants.
†† Excludes Itinerant Music Teachers serving town, village and rural schools.

3. Percentage Analysis of Elementary School Enrolment*

GRADES	IDEAL PERCENT-AGES	ACTUAL PERCENTAGES											
		Public Schools				Separate Schools				All Elemenntary Schools			
		Rural		Urban		Rural		Urban		Rural		Urban	
		For Five Previous Years	For 1938	For Five Previous Years	For 1938	For Five Previous Years	For 1938	For Five Previous Years	For 1938	For Five Previous Years	For 1938	For Five Previous Years	For 1938
I..................	18.0	18.5	18.1	15.3	15.0	27.9	26.5	19.8	18.8	19.5	19.0	16.4	15.9
II..................	16.5	13.1	13.3	13.8	14.1	14.7	14.6	14.8	14.3	13.2	13.4	14.0	14.1
III and IV..........	16.0	19.2	19.7	17.6	18.0	17.7	19.5	17.9	20.3	19.1	19.7	17.7	18.6
V..................	14.0	14.2	14.0	14.7	14.0	12.5	12.6	14.2	13.7	14.0	13.9	14.5	13.9
VI..................	13.0	12.5	12.4	13.9	13.7	10.7	10.9	12.8	12.4	12.3	12.2	13.6	13.4
VII................	12.0	11.4	11.2	13.1	13.2	8.7	8.8	11.4	11.0	11.1	11.0	12.7	12.7
VIII...............	10.5	11.1	11.3	11.6	12.0	7.8	7.1	9.1	9.5	10.8	10.8	11.1	11.4
	100	100	100	100	100	100	100	100	100	100	100	100	100

*May enrolment, Grades I-VIII inclusive.

4. Teachers' Salaries*

Year	Male							Female						
	Highest	Average						Highest	Average					
		Province	City	Town	Village	Urban	Rural		Province	City	Town	Village	Urban	Rural
	$	$	$	$	$	$	$	$	$	$	$	$	$	$
1912....	2,200	788	1,320	977	779	1,141	566	2,000	543	703	519	492	618	493
1917.....	2,500	1,038	1,637	1,166	908	1,425	686	2,200	650	795	628	573	731	580
1922.....	3,500	1,644	2,269	1,767	1,393	2,082	1,144	3,325	1,117	1,363	1,047	986	1,253	987
1927.....	3,875	1,667	2,310	1,749	1,407	2,107	1,147	3,500	1,152	1,465	1,095	1,012	1,336	970
1932.....	3,800	1,665	2,282	1,682	1,355	2,075	1,050	3,600	1,150	1,587	933	970	1,387	867
1936-37..	5,000	1,332	2,193	1,340	1,189	1,911	†745	3,700	1,041	1,531	938	918	1,351	†650
1937-38..	5,000	1,393	2,217	1,361	1,218	1,922	†778	3,700	1,049	1,546	982	858	1,367	†675

*Public School Teachers only. †Exclusive of large suburban and semi-urban schools.

5. Teachers' Experience*

Average Number of years' Teaching Experience

Year	Male	Female	All	Rural (Male and Female)	Urban (Male and Female)
1912........................	11.81	7.41	8.06	....	....
1917........................	14.70	7.67	8.44	....	....
1922........................	12.14	8.40	8.87	5.10	12.61
1927........................	10.49	8.87	9.11	4.92	13.25
1932........................	9.88	9.91	9.90	5.77	13.88
1936-37†...................	9.76	12.58	11.51	7.30	15.83

*Public School Teachers only. †Calculated as at June for the last two years; previous to that, at December.

6. Percentage of Male Teachers*

Year	Rural Schools	City Schools	Town Schools	All Schools
1912................................	15.10	14.88	12.30	14.86
1917................................	10.54	10.75	10.34	10.81
1922................................	11.64	14.18	10.22	12.55
1927................................	13.90	16.90	12.63	15.06
1932................................	16.64	19.49	15.70	17.77
1936-37............................	23.14	22.17	21.12	22.77
1937-38............................	24.17	22.89	22.48	23.79

*Public School Teachers only.

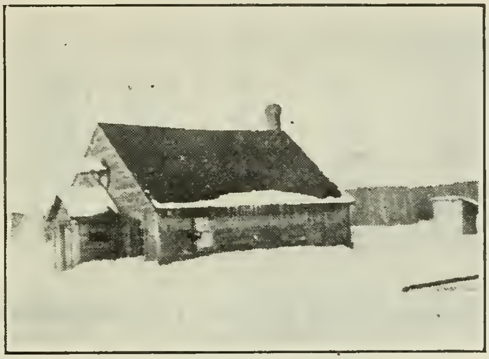
7. Receipts, Operating Expenditures, Capital Outlays

(Public and Separate Schools)

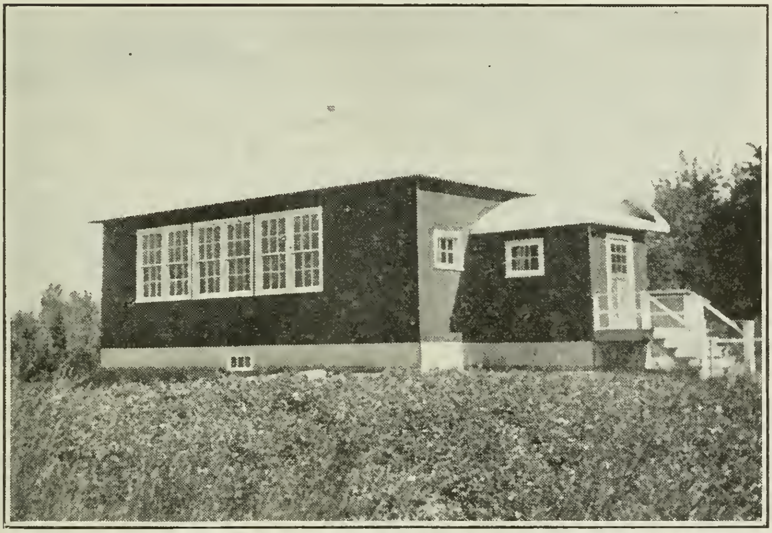
Year	Receipts					Operating Expenditures			Capital Outlays
	Legislative Grants	Local Levy	Township Grants	County Grants	Total Receipts	Current[1]	Capital[2]	Total	
	$	$	$	$	$	$	$	$	$
1912....	842,278	(9,478,887)			14,258,052	not se	parated	*8,328,245	2,945,715
1917....	907,846	10,565,886	(1,627,552)		17,269,285	"	"	*11,833,989	2,277,851
1922....	2,976,712	19,801,609	2,976,288	64,281	38,624,665	"	"	*25,176,262	6,764,622
1927....	3,404,647	22,362,305	3,174,245	84,990	41,586,106	"	"	*30,256,018	4,543,152
1932....	3,847,696	24,061,895	3,034,008	128,491	41,600,894	27,380,826	4,807,200	32,188,026	1,906,782
1936....	3,165,834	23,075,287	3,009,216	151,645	35,042,418	25,316,116	4,020,098	29,336,214	925,766
1937 ...	3,776,570	24,161,710	2,481,861	199,160	35,318,503	26,485,808	4,068,923	30.554,731	1,317,761

[1] General Maintenance. [2] Debt Charges. *Includes Temporary Loan Repayments.

TREND IN SCHOOL BUILDINGS IN NORTHERN ONTARIO



OLD SCHOOL—S.S. No. 1 MISSANABIE



NEW SCHOOL—S.S. No. 1, MISSANABIE

This school is situated about 200 miles northwest of Sudbury. It cost $3,241, has a classroom 24 ft. by 32 ft., teacher's room, cloak-rooms, hall and porch. It is well lighted, well ventilated, and easily heated, even at a temperature of 40 degrees below zero. It conducts a Fifth Class, has equipment valued at over $900, and has an attendance of 36. Over half the residents of the school section are Indians. The teacher has a First Class certificate, and receives a salary of $1,000.

Pictures Courtesy "Canadian School Journal".

B. ROMAN CATHOLIC SEPARATE SCHOOLS

1. Schools, Teachers, and Pupils

Year	No. of Schools in operation	Teachers	Pupils†	Boys	Girls	Average Daily Attendance	Attendance, Efficiency, Percentage
1912	513	1,237	61,297	31,126	30,171	39,735	....
1917	548	1,488	70,048	35,036	35,012	46,919	....
1922	656	1,958	88,546	44,728	43,818	64,897	84.98
1927	724	2,388	101,072	51,101	49,971	74,820	87.39
1932	764	2,739	99,198	50,524	48,674	89,804	*91.50
1936-37	812	2,941	101,010	51,536	48,812	92,773	*92.73
1937-38	832	2,917	102,505	51,898	50,607	94,360	*92.80

*Percentage of actual aggregate to perfect aggregate attendance.
†Commencing with 1932 the figure given is the May enrolment.

2. Average Number of Years' Teaching Experience

Year	Male	Female	All	Rural (Male and Female)	Urban (Male and Female)
1930	5.87	9.81	9.53	6.31	10.67
1932	6.05	9.98	8.77	6.39	10.89
1934	5.37	10.44	9.88	6.36	10.42
1936-37*	6.27	11.83	11.23	7.91	12.44

*Calculated as at June for the last 2 years; previously, at December.

3. Receipts, Operating Expenditures, Capital Outlays

Year	Receipts			Operating Expenditures			Capital Outlays
	Legislative Grants	County Grants and Local Levy	Total Receipts	Current	Capital	Total	
	$	$	$	$	$	$	$
1912	51,846	757,255	1,186,814	not se	parated	*719,824	323,400
1917	63,127	1,066,253	1,499,726	"	"	*1,026,784	286,939
1922	195,963	2,154,985	4,049,044	"	"	*2,546,886	1,111,833
1927	296,277	2,889,495	5,100,879	"	"	*3,946,031	671,241
1932	535,111	2,955,779	5,720,395	3,108,449	709,450	3,817,899	888,821
1936	564,019	2,850,799	4,560,246	3,149,164	585,933	3,735,097	159,760
1937	728,178	3,069,846	5,023,575	3,277,256	624,855	3,902,111	372,091

*Contains Short Term Loan Repayments.

C. PROTESTANT SEPARATE SCHOOLS

The following is a complete list of the Protestant Separate Schools of the Province:—No. 1 Grattan, No. 2 Hagarty, L'Orignal, and Penetanguishene (two schools).

They were attended by 246 pupils in 1937. The whole amount expended for their maintenance and permanent improvements was $13,705.42. There were eight teachers, of whom four held First Class, three held Second Class, and one held a Kindergarten-Primary certificate.

D. HIGH SCHOOL ENTRANCE EXAMINATION RESULTS

Year	Candidates		Successful Candidates						Percentage of those attempting the written test who were successful
			By Recommendation		By Writing		Total		
	Number	Percentage of Grade VIII May Enrolment	Number	Per cent.	Number	Per cent.	Number	Per cent.	
1912	22,679	....	....	....	13,977	61.63	13,977	61.63	61.63
1917	21,975	....	....	....	15,751	71.67	15,751	71.67	71.67
1922	36,114	....	7,904	21.88	19,656	54.43	27,560	76.31	69.67
1927	44,121	78.05	13,070	29.62	24,381	55.26	37,451	84.88	78.51
1932	50,280	91.82	19,114	38 01	21,604	42.97	40,718	80.98	69.32
1937	55,307	96 84	30,455	55.06	16,514	29.86	46,969	84.92	66.45
1938	55,351	96.18	31,795	57.44	15,922	28.77	47,717	86.21	67.59

E. FIFTH CLASSES

Year	Number of Schools Conducting Fifth Class Work	Fifth Class Enrolment in these Schools	Number of Fifth Classes Qualifying for Legislative Grant	Enrolment in Qualifying Fifth Classes	Grading			Distribution of Qualifying Classes, with Average Enrolment per Class						Legislative Grant
								Public				Separate		
								Counties		Districts				
					A	B	C	No.	Aver. Enrol.	No.	Aver. Enrol.	No.	Aver. Enrol.	
1924-25..	468	....	193	1,878	93	69	31	108	7.8	46	8.7	39	16.0	$28,396
1927-28..	760	....	254	2,231	92	98	64	128	6.9	78	6.3	48	17.7	35,739
1930-31..	1,316	6,618	418	2,790	111	115	192	210	5.3	139	4.9	69	14.5	55,562
1933-34..	1,553	7,323	587	4,746	149	154	284	331	7.1	149	5.4	107	14.7	62,211
1936-37..	1,715	11,621	580	4,188	161	170	248	328	6.7	144	5.6	108	11.1	70,367
1937-38..	1,521	10,914	523	3,955	159	160	204	271	7.4	146	5.4	106	10.9	70,857

II. SECONDARY SCHOOLS

A. CONTINUATION SCHOOLS

1. School and Pupils

Year	No. of Schools	Classification of Schools by Number of Teachers Employed						Enrolment	Boys	Girls	Attendance Efficiency Percentage	Enrolment Distribution					
												Lower School		Middle School		Upper School	
		1	2	3	4	5	6					No.	%	No.	%	No.	%
1912....	138	54	73	11	...	...	...	6,094	2,499	3,595	61.97	4,166	68.36	1,879	30.83	49	.81
1917-18..	137	36	99	2	...	...	...	5,104	1,989	3,115	73.15	3,858	75.59	1,246	24.41	.....	.....
1922-23..	181	58	104	19	...	...	...	8,777	3,569	5 208	82.42	6,316	71.96	2,461	28.04	.....	.....
1926-27..	207	54	119	29	5	...	...	9,654	3,944	5,710	83.48	6,238	64.61	3,328	34.48	88	.91
1932-33..	219	13	154	42	6	3	1	11,070	5,060	6,304	90.15	6,791	59.76	4,263	37.51	310	2.73
1936-37..	208	12	139	46	8	1	2	8,935	3,750	5,185	91.94	5,352	59.90	3,202	35.84	381	4.26
1937-38..	206	8	129	50	14	3	2	9,251	3,893	5,358	93.42	5,635	60.90	3,249	35.10	367	4.00

Commencing with 1932-33, enrolment is that of May instead of the entire year, and attendance efficiency is based on the percentage of actual to perfect aggregate, instead of average attendance to enrolment.

2. Teachers, Salaries and Experience

Year	Teachers									Salaries							
				Percentages				Percentages		Highest			Average				
	Number of Teachers	University Graduates	Specialists	University Graduates	Specialists	Men	Women	Men	Women	Principal	Male Assistants	Female Assistants	Principal	All Assistants	All Teachers	Male Assistants	Female Assistants
											$	$	$	$	$	$	$
1920-21...	255	47	57	18.43	22.35	71	184	27.84	72.15	3,000	1,800	1,700	1,579	1,229	1,424	1,356	1,215
1926-27...	422	57	28	13.51	6.64	137	285	32.46	67.54	3,550	2,300	1,950	1,769	1,332	1,548	1,383	1,318
1931-32...	490	93	45	18.98	9.18	167	323	34.08	65.92	3,550	2,400	2,400	1,824	1,372	1,577	1,378	1,332
1936-37...	478	272	118	56.90	24.69	235	243	49.16	50.84	2,700	1,800	1,600	1,427	1,048	1,213	1,080	1,031
1937-38...	504	290	126	57.54	25.00	249	255	49.40	50.60	2,800	1,700	1,950	1,468	1,074	1,243	1,098	1,061
1938-39...	529	317	159	59.92	30.06	265	264	50.09	49.91	2,800	2,000	1,950	1,490	1,093	1,259	1,128	1,073

Average number of years' teaching experience in Secondary School work as at June, 1938:
Male 8.41; Female, 2.86; All, 5.58.

3. Receipts, Operating Expenditures, Capital Outlays

Year	Receipts					Operating Expenditures			Capital Outlays
	Legislative Grants	County Grants	Township Grants	Local Levy	Total Receipts	Current	Capital	Total	
	$	$	$	$	$	$	$	$	$
1912.......	64,081	60,352	116,780		295,261	not separated		238,226	26,861
1917.......	65,732	72,541	155,173		360,431	"	"	279,558	45,063
1922.......	148,217	218,323	325,548		1,038,646	"	"	611,425	267,006
1927.......	199,388	363,285	350,819		1,363,646	"	"	950,376	171,628
1932.......	220,773	448,355	95,579	276,524	1,459,579	944,342	141,697	1,086,039	31,631
1936.......	189,917	330,338	102,785	229,027	1,200,074	752,383	129,016	881,399	22,442
1937.......	192,374	263,872	49,269	308,958	1,165,018	757,482	137,890	895,372	32,069

B. COLLEGIATE INSTITUTES AND HIGH SCHOOLS

1. Schools and Teachers

Year	Schools			Teachers										
									Percentage				Percentage	
	Collegiate Institutes	High Schools	Total	Collegiate Institutes	High Schools	Total	University Graduates	Specialists	University Graduates	Specialists	Men	Women	Men	Women
1920-21..	47	121	168	664	543	1,207	895	629	74.15	73.81	587	620	48.63	51.34
1926-27..	56	136	192	1,025	774	1,799	1,547	1,326	85.99	73.71	837	962	46.53	53.16
1930-31..	65	142	207	1,201	933	2,134	1,924	1,588	90.16	74.41	962	1,172	44.85	55.47
1934-35..	68	144	212	1,420	941	2,361	2,235	1,850	94.66	78.35	1,171	1,190	49.59	50.41
1937-38..	70	156	226	1,530	1,051	2,581	2,450	2,019	94.92	78.23	1,355	1,226	52.50	47.50
1938-39..	71	156	227	1,563	1,078	2,641	2,486	2,075	94.13	78.57	1,412	1,229	53.46	46.54

2. Teachers' Salaries and Experience

(a) Salaries

Year	Highest						Average											
	Coll. Inst.			High School			Coll. Inst.				High School				Combined Coll. Inst. and High School			
	Principal	Male Assistant	Female Assistant	Principal	Male Assistant	Female Assistant	Principal	Male Assistant	Female Assistant	All	Principal	Male Assistant	Female Assistant	All	Principal	Assistant	Male Assistant	Female Assistant
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
1920-21	4,500	3,500	3,375	4,375	3,375	3,125	3,203	2,478	1,863	2,251	2,315	2,142	1,550	1,843	2,563	1,987	2,390	1,705
1926-27	5,000	4,400	3,375	4,100	3,500	2,750	3,759	2,767	2,327	2,621	2,865	2,142	1,909	2,123	3,120	2,320	2,622	2,113
1930-31	5,000	4,500	3,600	6,000	3,500	2,800	3,994	2,890	2,414	2,716	3,086	2,385	2,004	2,243	3,365	2,418	2,756	2,200
1934-35	5,350	3,700	3,600	4,200	2,800	2,700	3,624	2,565	2,205	2,457	2,567	1,723	1,632	1,798	2,907	2,125	2,355	1,937
1937-38	5,000	3,700	3,600	4,300	2,860	2,700	3,715	2,549	2,247	2,475	2,535	1,709	1,616	1,784	2,900	2,129	2,316	1,954
1938-39	5,000	3,700	3,600	4,300	3,600	2,700	3,742	2,563	2,277	2,498	2,571	1,728	1,627	1,799	2,939	2,148	2,326	1,975

(b) Average number of years' teaching experience in Secondary School work, as at June, 1938

	Male	Female	Both
Collegiate Institute Teachers..	12.11	12.11	12.11
High School Teachers..	8.57	8.57	8.57
Both..	10.80	10.43	10.66

3. Pupils

Year	Enrolment	Boys	Girls	Attendance Efficiency Percentage	Enrolment Distribution					
					Lower School		Middle School		Upper School	
					Number	Per cent.	Number	Per cent.	Number	Per cent.
1912.......	32,273	14,846	17,427	62.80	19,829	61.44	9,842	30.50	2,602	8.06
1917-18....	29,097	12,353	16,744	78.15	20,190	69.39	7,336	25.21	1,571	5.40
1922-23....	44,631	21,139	23,492	86.03	29,219	65.47	12,210	27.35	3,202	7.18
1927-28....	55,805	26,788	29,017	85.65	34,700	62.18	16,395	29.38	4,710	8.44
1932-33....	68,603	34,606	33,997	91.90	36,827	53.68	22,939	33.43	8,837	12.88
1936-37....	67,088	32,057	35,031	94.28	36,186	53.94	23,747	35.40	7,155	10.66
1937-38....	68,700	32,588	36,112	95.72	37,958	55.25	23,518	34.23	7,224	10.52

Commencing with 1932-33, enrolment is that of May instead of the entire year, and attendance efficiency is based on the percentage of actual to perfect aggregate instead of average attendance to enrolment.

4. Receipts, Operating Expenditures, Capital Outlays

Year	Receipts				Operating Expenditures			Capital Outlays
	Legislative Grants	County Grants	Local Levy	Total Receipts	Current	Capital	Total	
	$	$	$	$	$	$	$	$
1912...........	209,956	287,719	1,439,324	2,414,128	not se	parated	1,576,964	376,097
1917...........	184,088	364,052	1,582,128	3,051,684	"	"	2,105,661	313,314
1922...........	276,889	790,518	3,099,826	7,993,999	"	"	3,972,161	2,770,714
1927...........	484,978	1,475,538	4,154,487	9,755,761	"	"	7,108,527	1,691,779
1932...........	464,882	1,955,045	5,789,253	9,739,616	6,802,931	1,498,770	8,301,701	388,291
1936...........	480,484	1,459,859	5,507,312	8 655,564	6,249,430	1,447,793	7,697,223	489,227
1937...........	654,713	1,299,513	5,918,722	9,073,448	6,609,439	1,544,333	8,153,772	159,576

C. VOCATIONAL AND SENIOR AUXILIARY SCHOOLS

1. Schools, Teachers and Pupils

(a) Day Vocational Schools

Year	Number of Schools	Pupils (May Enrolment)							Teachers				
		Full-Time	Part-Time and Special	Total	Male	Female	Full-Time Courses		Full-Time	Part-Time and Occasional	Total	Male	Female
							Technical	Commercial					
1918-19...	11	4,379	......	4,379	3,012	1,727			155		155		
1922-23...	16	6,987	2,415	9,402	4,447	4,955			286	51	337		
1926-27...	36	16,560	4,355	20,915	9,595	11,320	not co	mpiled	579	150	729	*361	*218
1930-31...	58	28,112	3,225	31,337	14,976	16,361			1,000	277	1,277	760	517
1936-37...	58	33,409	1,357	34,766	17,225	17,541	16,698	18,068	1,186	261	1,447	938	509
1937-38...	59	34,892	1,390	36,282	17,943	18,339	16,457	18,370	1,200	331	1,531	952	579

*Full-Time only.

(b) Evening Vocational and Day Sr. Auxiliary

Year	Evening Vocational Schools					Sr. Auxiliary Day Schools						
	Number of Schools	Pupils			Teachers	Number of Schools	Full-Time Pupils			Full-Time Teachers		
		Male	Female	Total			Male	Female	Total	Male	Female	Total
1922-23...	51	15,125	18,386	33,511	1,097	....	....	....	....	......	......	......
1926-27...	60	17,582	20,335	37,917	1,297	2	473	296	769	14	12	26
1930-31...	71	25,119	22,948	47,440	1,647	4	829	529	1,358	32	23	55
1936-37...	32	13,002	12,748	25,750	808	5	811	642	1,453	35	33	68
1937-38...	45	17,649	14,231	31,880	981	5	829	620	1,449	35	33	68

2. Teachers' Salaries

Year	Salaries*										University Graduates and Specialists			
	Vocational Schools					Special Industrial Schools								
	Highest	Average				Highest	Average				Graduates	Per cent.	Specialists	Per cent.
		Principal	Male Assist.	Female Assist.	All		Principal	Male Assist	Female Assist.	All				
1918-19...			Data not available											
1922-23...			Data not available											
1926-27...	6,600	4,168	2,606	2,305	2,562	3,500	3,000	2,130	1,891	2,091	403	59.79	319	47.33
1930-31...	6,600	4,132	2,601	2,381	2,574	3,900	2,950	2,188	2,064	2,197	799	65.55	580	47,58
1936-37...	4,800	3,674	2,455	2,182	2,409	3,500	3,058	2,447	2,198	2,380	1,067	68.57	901	57.90
1937-38...	5,000	3,785	2,502	2,234	2,458	3,500	3,098	2,461	2,235	2,409	1,130	69.80	978	60.40

*Includes full-time and part-time teachers.

3. Receipts, Operating Expenditures, Capital Outlays

Year	Receipts				Operating Expenditures			Capital Outlays
	Legislative Grants	County Grants	Local Levy	Total Receipts	Current	Capital	Total	
	$	$	$	$	$	$	$	$
1918...........	110,637	1,329,049		690,311	not separated		388,791	104,409
1922...........	638,217	831,861		2,575,598	"	"	1,307,396	564,218
1926...........	813,581	1,997,011		4,276,707	"	"	3,100,185	399,205
1930...........	1,144,052	207,927	3,634,260	9,233,601	4,197,206	735,796	4,933,002	3,167,392
1936...........	1,001,040	231,817	4,249,760	6,078,126	4,317,055	1,215,185	5,532,240	36,312
1937...........	1,021,724	240,941	4,505,140	6,438,002	4,579,197	1,250,807	5,830,004	229,190

III. TEACHERS AND TRAINING SCHOOLS

A. ATTENDANCE, NORMAL AND NORMAL-MODEL SCHOOLS

Number of Teachers in Training at Provincial Normal Schools, and the Pupils at the Normal-Model Schools in connection therewith

Year	Normal										Normal-Model	
	Teachers	Student-Teachers										
		**Total	M	F	1st Class		2nd Class		K-P		Teachers	†Pupils
					1st Yr.	2nd Yr.	1st Yr.	2nd Yr.	1st Yr.	2nd Yr.		
1927-28...	88	1,568	234	1,334	620	......	912	......	36	......	43	1,207
1930-31...	86	1,555	309	1,246	702	12	808	3	29	1	42	1,202
1933-34...	93	2,778	723	2,055	1,231	488	732	275	37	15	42	1,217
1936-37...	89	1,082	245	837	875	......	193	......	14	......	38	923
1937-38...	88	1,087	196	891	895	......	172	......	20	......	40	919
1938-39...	87	990	211	779	840	......	150	......	......	......	40	872

†Calendar year enrolment.
**Includes January enrolments.

B. DEPARTMENTAL SUMMER COURSES
ENROLMENT BY SUBJECTS IN RECENT YEARS

(The Summer Courses are conducted by the Department of Education for the benefit of Teachers, who desire to spend a part of their summer vacation in an effort to improve their academic and professional standing, and thus to become more efficient in carrying on with a modernized curriculum.)

Courses	Centre	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Agriculture	Guelph, Kemptville	295	363	487	513	378	350	566	1,121	1,336	965
Art	Toronto	265	232	261	353	183	192	223	292	321	303
Auxiliary Classes	Toronto	63	93	158	.....	66	78	109	134	130	174
Cadet Corps	.....	67	57	63	.....	.....	.....	.....	.....	.....	.....
Commercial	Toronto	184	215	307	238	194	175	175	216	258	261
Education	See below	.....	.....	.....	.....	.....	.....	.....	668	1,385	1,213
English-French	See below	845	678	700	806	372	305	329	253	224	212
Farm Mechanics	Guelph	.....	.....	.....	.....	.....	.....	.....	25	23	27
Health Teaching	Toronto	.....	.....	.....	.....	45	53	84	176	213	305
High School Assistant's	Toronto	37	38	67	99	84	79	87	51	64	82
Household Arts	See below	.....	.....	.....	.....	.....	.....	.....	.....	48	.....
Household Science	See below	76	88	87	.....	24	28	55	158	365	.....
*Home Economics—											
Elementary Type B	See below	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
Elementary Type C	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	437
Kindergarten-Primary	London, Toronto, Ottawa	267	256	308	.....	169	205	208	279	320	308
Latin Refresher	Toronto	.....	.....	.....	.....	.....	.....	.....	.....	.....	70
†Manual Training—											
(a) Elementary, Type A	Hamilton	55	84	64	.....	32	33	62	102	231	154
(b) Elementary, Type B	Ottawa	.....	.....	.....	.....	.....	.....	.....	.....	.....	358
(c) Specialist	Hamilton	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
(d) Extension	Hamilton	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
Middle School	.....	12	13	11	.....	.....	.....	.....	.....	.....	.....
Music—Vocal	Toronto, London	191	225	276	.....	152	196	409	502	693	970
Instrumental	Toronto, London	.....	.....	.....	.....	.....	.....	.....	11	73	.....
Oral French	Quebec	102	69	80	.....	62	59	48	46	57	45
Physical Education	See below	377	255	351	.....	314	271	271	252	199	156
Physical Education Refresher for Men	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
Refresher Courses in Science	Toronto	48	57	61	.....	20	15	17	.....	.....	.....
Refresher Courses in English and History	.....	.....	37	56	.....	.....	.....	.....	.....	.....	.....
School Nurses	Toronto	45	33	34	.....	.....	34	.....	.....	.....	.....
School Librarian's Course	Toronto	.....	32	32	.....	.....	.....	.....	.....	.....	.....
Shop Work—General	Hamilton	.....	.....	.....	.....	.....	.....	.....	.....	16	.....
Special	Hamilton	.....	.....	.....	.....	.....	.....	.....	.....	120	.....
Upper School	See below	803	906	910	.....	695	701	610	637	449	424
Vocational Courses	Hamilton	184	347	305	203	120	78	81	70	73	96
Vocational Guidance	Hamilton	.....	22	19	.....	12	20	.....	6	.....	32
Total	.....	3,917	4,099	4,637	‡2,212	2,922	2,872	3,334	5,039	6,598	6,795

1938 Centres: Education—Ottawa, Kingston, London, Toronto.
Physical Education—Lake Couchiching (Women); Kingston (Men).
Upper School—Ottawa, Windsor, Port Arthur, Kingston, Toronto, London, North Bay.
English-French—Ottawa, Windsor, Sturgeon Falls.

*Type C, Hamilton and Ottawa; Type B at Toronto.

†Part I only of Type B at Ottawa, balance at Hamilton.

‡In the interests of economy a curtailment was made in the number of courses offered.

C. TREND IN GRADE OF TEACHERS' CERTIFICATES IN ENGLISH-FRENCH SCHOOLS

Year	Number of Teachers	First Class		Second Class		Third Class		District		Temporary		Permanent Ungraded	
		Number	Per cent.	Number	Per cent.	Number	Per cent.	Number	Per cent.	Number	Per cent.	Number	Per cent.
1929-30	1,087	30	2.76	243	22.36	537	49.40	44	4.04	205	18.86	28	2.58
1931-32	1,108	72	6.50	319	28.79	442	39.89	25	2.26	232	20.94	18	1.62
1933-34	1,202	117	9.73	465	38.69	449	37.35	6	.51	145	12.06	20	1.66
1935-36	1,257	155	12.33	710	56.48	293	23.31	4	.33	81	6.44	14	1.11
1937-38	1,298	216	16.72	856	66.25	144	11.15	2	.16	68	5.26	12	.46
1938-39	1,297	221	17.04	914	70.47	97	7.48	3	.23	50	3.85	12	.93

D. PROFESSIONAL CERTIFICATES ISSUED BY THE DEPARTMENT DURING THE LAST TEN YEARS IN THE FOLLOWING

Year	†High School Principal	High School Assistant		First Class		Second Class		English-French			Vocational		†Kindergarten Director	Kindergarten Primary	
		A	B	A	B	A	B	Grade B	Grade C	District	A	B		A	B
1929	48	327	393	702	607	734	1,145	66	12	17	34	24	15	133	59
1930	49	365	361	669	336	703	600	48	4	8	37	34	19	131	62
1931	49	432	357	693	294	775	235	45	......	......	44	34	11	124	83
1932	33	487	363	944	309	955	136	*62	......	9	112	53	8	‡48	99
1933	35	576	381	1,268	229	714	74	*71	......	10	78	43	8	103	50
1934	57	555	411	1,211	481	705	258	*91	......	13	48	65	5	127	32
1935	71	498	417	1,410	163	596	31	*40	......	8	34	64	8	109	36
1936	89	477	425	1,283	308	225	122	......	......	......	12	35	......	96	33
1937	86	303	405	1,011	654	149	184	......	......	......	43	27	......	134	52
1938	90	295	402	1,165	960	149	242	......	......	......	28	24	1	124	52

A = Interim.
*Now called Third Class.
‡Extensive reduction in summer courses in 1932.

B = Interim certificates made permanent.
†Permanent certificate.

E. TEACHERS' INSTITUTES

Year	Teachers' Institutes	*Members	Elementary School Teachers in the Province	Receipts				Expenditures	
				Legislative Grants	Municipal Grants	Members' Fees	Receipts from all sources	Libraries	Total of all expenditures
				$	$	$	$	$	$
1912	83	9,913	11,128	3,800	2,100	1,961	22,120	1,359	10,120
1917	94	12,460	12,762	5,475	3,701	3,821	27,712	3,173	13,977
1922	95	12,910	14,872	6,900	4,459	6,540	39,759	5,743	25,810
1927	99	15,249	16,345	5,600	4,656	7,322	44,547	8,092	25,535
1932	109	16,789	17,340	5,975	4,125	7,748	46,422	6,244	21,274
1936	†88	13,498	17,536	18	1,039	8,192	29,314	5,730	15,877
1937	103	16,908	17,493	18	1,336	10,556	37,198	7,362	21,011

*Registered attendance of members. †Some of drop due to union meetings of hitherto separate Institutes.

IV. ENROLMENT AND POPULATION

A. ENROLMENT AND EXEMPTIONS OF PUPILS OF ADOLESCENT AGE (14 AND 15 YEARS)

Year	Total Enrolment Pupils of Adolescent Age †	Boys	Girls	Exemptions under the Adolescent Act						Grand Total	Percentage of Adolescents Exempted
				Home Permits			Employment Certificates				
				Urban	Rural	Total	Urban	Rural	Total		
1926	89,567	45,445	44,122	959	420	1,379	3,901	424	4,325	5,704	6.37
1930	83,821	42,754	41,067	984	385	1,369	2,831	320	3,151	4,520	5.39
1934	82,106	42,038	40,068	1,190	306	1,496	1,300	276	1,576	3,072	3.74
1936	102,741	52,109	50,632	1,475	787	2,262	1,996	294	2,280	4,542	4.42
1937	103,118	52,435	50,683	1,435	703	2,138	2,244	244	2,488	4.626	4.48
1938	103,582	53,031	50,551	1,234	496	1,730	1,693	214	1,907	3.637	3.51

†May enrolment.

B. RELATION OF COMPULSORY ENROLMENT TO TOTAL ENROLMENT AND PROVINCIAL POPULATION

Year	Provincial Population‡	Total Day Enrolment†	Total Day Enrolment as Percentage of Population	Enrolment of Pupils of Compulsory Age (8 to 15, inclusive)	Percentage of Compulsory Age Enrolment to Total Day Enrolment
1926.................	2,941,437	678,637	23.07	479,767	69.77
1930.................	3,141,633	661,948	21.07	451,404	59.55
1934.................	3,275,228	679,474	20.75	490,929	72.25
1936.................	3,350,139	672,706	20.08	502,320	74.67
1937.................	3,377,832	668,627	19.79	485,304	72.58

†May enrolment. ‡Ontario Municipal Statistics.

V. COMPARATIVE SUMMARIES

A. PUPILS AT PROGRESSIVE STAGES

Year	Elementary Schools									Secondary Schools												
	Beginners Admitted			May Enrolment all Grades	May Enrolment Grade VIII	High School Entrance Candidates	Number Successful	May Enrolment Grades IX & X	Retirements (a)	Beginners Admitted				May Enrolment, Full-Time Pupils (b)					Departmental Examination Candidates		
	Public	Separate	Total							High	Continuation	Vocational	Total	Grade IX	Grade X	Grades XI & XII	Grade XIII	Total	Lower School	Middle School	Upper School
1921-22...	......	......	......	......	......	28,210	19,656	......	......	14,653	3,226	2,722	20,601	19,373	13,639	11,560	2,338	46,910	20,330	13,666	2,708
1926-27...	60,752	12,661	73,413	......	......	44,121	37,451	......	16,541	17,312	3,477	8,543	29,332	32,255	20,347	21,742	5,549	79,893	35,110	25,752	11,632
1931-32...	55,760	12,446	68,206	580,612	54,757	50,280	40,718	8,196	13,274	19,150	4,049	13,273	36,472	38,921	26,980	32,624	7,913	106,438	45,071	33,139	17,509
1934-35...	54,534	11,964	66,498	565,777	57,221	55,092	45,737	10,565	11,465	19,072	3,642	12,765	35,479	37,012	27,231	34,345	9,451	108,039	48,781	35,975	21,623
1935-36...	55,603	12,756	68,359	561,937	57,746	54,991	46,320	11,618	12,494	18,937	3,337	17,004	39,278	37,502	28,200	34,506	8,972	109,180	47,369	35,731	21,229
1936-37...	55,581	12,584	68,123	555,713	57,112	55,032	46,484	9,993	13,441	20,183	3,109	12,770	36,062	37,460	27,534	34,259	7,979	107,232	46,489	35,856	19,685
1937-38...	54,443	11,570	66,013	557,014	57,648	55,351	47,717	10,002	11,078	21,130	3,405	12,326	36,861	37,254	28,999	35,341	8,053	109,647	*	35,745	19,281

(a) Upon reaching compulsory age limit. (b) Excluding Special pupils. * Discontinued.

B. GENERAL STATISTICAL ABSTRACT

Showing the Comparative State and Progress of Publicly Controlled Education in Ontario from 1917 to 1937

	1917	1922	1927	1932	1936	1937
Population X	2,560,453	2,792,482	2,966,465	3,239,437	3,350,139	3,377,832
Number of Schools—						
Public	6,103	6,289	6,426	6,424	6,347	6,377
R.C. Separate	548	656	724	764	812	832
Continuation	137	181	217	220	208	206
High	162	175	197	207	225	227
Vocational (Day)	11	16	42	67	58	59
Sr. Auxiliary	....	....	....	....	5	5
Total	**6,961**	**7,317**	**7,606**	**7,682**	**7,655**	**7,706**
Enrolment of Pupils†—						
Public (Day and Evening)	458,436	515,202	535,691	484,896	455,966	455,165
R.C. Separate	70,048	88,546	101,072	101,552	101,010	102,505
Continuation	5,104	8,777	10,079	11,364	8,935	9,251
High (Day and Evening)	33,024	46,340	59,692	71,492	68,921	70,288
Vocational (Day)	3,674	9,402	24,513	36,938	34,766	36,282
" (Evening)	14,597	33,511	39,096	33,860	25,750	31,880
Sr. Auxiliary (Day & Evg.)	....	....	....	....	1,643	1,652
Total	**584,883**	**701,778**	**770,143**	**740,102**	**696,991**	**707,023**
Number of Teachers—						
Public	11,274	12,914	13,958	14,601	14,595	14,540
R.C. Separate	1,488	1,958	2,388	2,739	2,941	2,953
Continuation	241	323	454	493	478	504
High	1,051	1,420	1,875	2,307	2,452	2,581
Vocational (Day)	132	286	831	1,480	1,447	1,531
" (Evening)	....	1,097	1,276	1,173	808	1,080
Sr. Auxiliary	....	....	....	....	68	68
Total	**14,186**	**17,998**	A **20,667**	A **21,812**	A **21,644**	A **21,789**
Net Municipal Expenditures*—	$	$	$	$	$	$
Public	11,953,393	25,481,416	27,073,528	25,057,542	22,999,302	23,604,228
R.C. Separate	1,250,596	3,562,756	4,320,995	3,282,788	3,171,078	3,173,933
Continuation	258,888	734,214	922,616	865,306	691,482	702,998
High	2,234,887	6,465,986	8,315,328	7,836,819	7,216,739	7,499,059
Vocational	....	1,233,397	2,939,171	4,421,097	4,317,722	B 4,578,684
Sr. Auxiliary	....	....	....	....	213,478	229,590
Total	**15,697,764**	**37,477,769**	**43,571,638**	**‡41,463,552**	**‡38,609,801**	**‡39,788,492**
Legislative Grants—	$	$	$	$	$	$
Public	844,719	2,780,749	3,318,071	3,312,585	2,601,815	3,048,392
R.C. Separate	63,127	95,963	368,230	535,111	564,019	728,178
Continuation	65,733	147,217	230,977	220,733	189,917	192,374
High	184,088	276,889	443,727	464,882	480,484	654,713
Vocational	....	638,217	1,036,441	1,554,734	959,611	978,976
Sr. Auxiliary	....	....	....	....	41,429	42,748
Total	**1,157,667**	**4,040,035**	**5,397,446**	**6,088,046**	**4,837,275**	**5,645,381**
Teachers' Salaries—	$	$	$	$	$	$
Public	7,763,361	15,308,587	17,221,594	18,279,370	16,328,612	16,946,178
R.C. Separate	635,089	1,382,395	1,784,722	2,160,976	2,281,520	2,268,275
Continuation	228,362	474,241	653,770	732,837	578,460	570,225
High	1,554,049	2,963,011	4,330,079	5,355,751	4,936,744	5,194,012
Vocational	....	787,370	1,982,571	3,605,249	3,260,422	3,323,470
Sr. Auxiliary	....	....	....	....	163,133	171,451
Total	**10,180,861**	**20,915,594**	**25,972,736**	**30,134,183**	**27,548,891**	**28,473,611**

XOntario Municipal Statistics figure.

*Less Legislative Grants.

‡General Maintenance and Capital Charges in Day Schools.

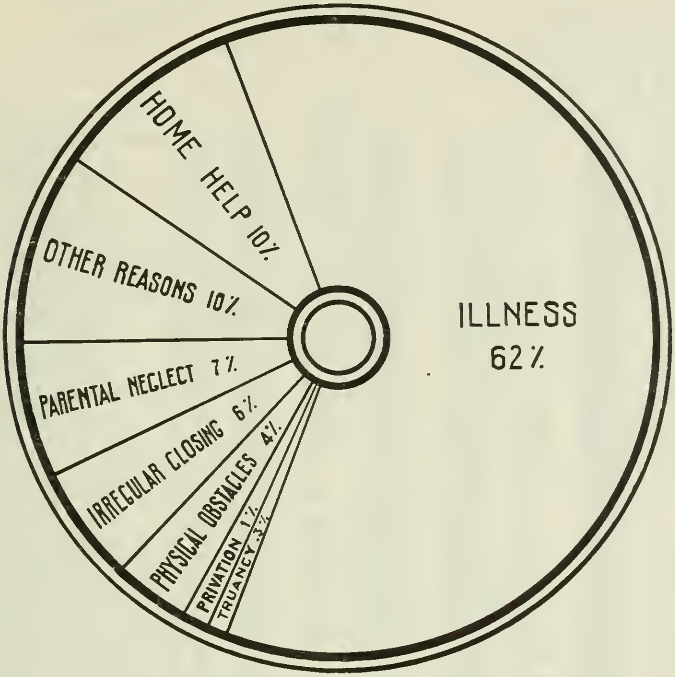
Financial figures cover the calendar year specified. Commencing with 1936 all other data covers the school year ended six months after the calendar year specified. Previous to this, elementary school data covers the calendar year.

†May enrolment, commencing with 1932.

A Without duplication.

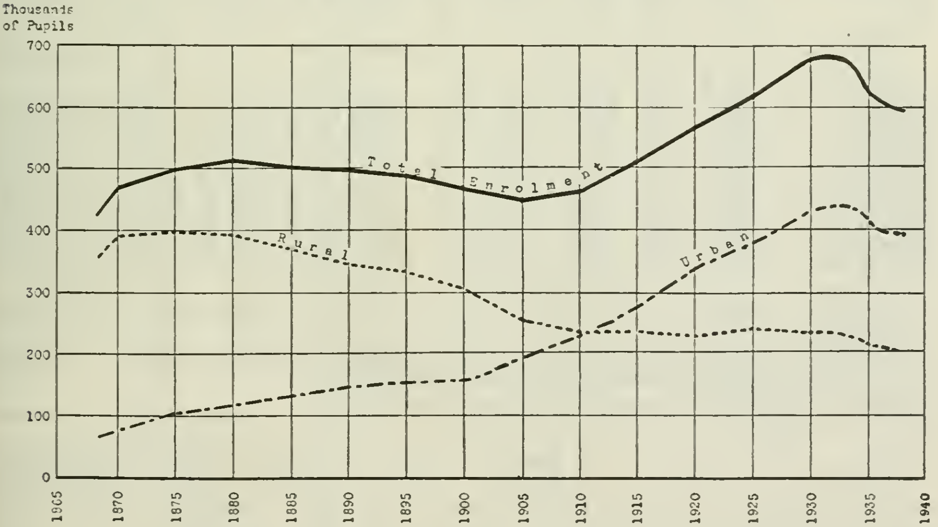
B In addition, general maintenance of Evening Schools amounted to $252,281.

DISTRIBUTION OF ATTENDANCE LOSSES, ELEMENTARY SCHOOLS, 1937-38



Graph 2.

TREND IN ELEMENTARY SCHOOL ENROLMENT FROM CONFEDERATION TO THE PRESENT



Basis: Total Enrolment for the Year.

Graph 3.

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 1—ENROLMENT AND ATTENDANCE, 1937-38

* RURAL SCHOOLS	May Enrolment			Average Attendance for the School Year			Days Lost per Year per Pupil of May Enrolment			Attendance Efficiency Percentage		
	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total
In Counties												
Addington	563	51	614	456	47	503	24.58	15.49	23.83	86.64	91.89	87.09
Brant	2,003	......	2,003	1,696	......	1,696	21.53	......	21.53	88.41	......	88.41
Bruce	3,117	462	3,579	2,635	449	3,084	19.59	11.05	18.49	88.91	94.56	89.71
Carleton	3,227	1,384	4,611	2,638	1,268	3,906	18.17	15.26	17.30	87.74	92.06	89.73
Dufferin	1,565	......	1,565	1,333	......	1,333	23.24	......	23.34	87.51	......	87.51
Dundas	1,685	25	1,710	1,498	25	1,523	19.01	8.52	18.86	88.77	95.80	88.88
Durham	2,106	......	2,106	1,792	......	1,792	19.70	......	19.70	89.18	......	89.18
Elgin	2,945	......	2,945	2,342	......	2,342	16.72	......	16.72	90.51	......	90.51
Essex	4,602	1,629	6,231	3,889	1,533	5,422	20.08	16.55	19.16	89.27	91.00	89.73
Frontenac	3,160	149	3,309	2,516	134	2,650	27.62	25.97	27.55	85.01	86.26	84.52
Glengarry	1,792	720	2,512	1,479	560	2,039	23.02	18.54	21.74	82.41	88.93	84.08
Grenville	1,279	......	1,279	1,053	......	1,053	23.82	......	23.82	86.80	......	86.80
Grey	4,815	105	4,920	4,083	90	4,173	20.09	18.19	20.04	89.36	89.81	89.37
Haldimand	1,872	......	1,872	1,673	......	1,673	19.48	......	19.48	90.20	......	90.20
Haliburton	1,176	......	1,176	981	......	981	30.85	......	30.85	83.70	......	83.70
Halton	1,622	......	1,622	1,392	......	1,392	19.27	......	19.27	89.44	......	89.44
Hastings	4,693	162	4,855	3,926	149	4,075	22.69	21.23	22.64	87.80	89.19	87.85
Huron	4,173	179	4,352	3,618	160	3,778	17.14	19.42	17.24	90.72	89.45	90.67
Kent	4,675	408	5,083	3,899	363	4,262	23.13	23.61	23.16	87.31	87.64	87.34
Lambton	3,930	34	3,964	3,341	29	3,370	22.85	22.82	22.84	87.98	87.72	87.97
Lanark	2,070	48	2,118	1,748	41	1,789	18.54	20.44	18.58	89.91	88.86	89.89
Leeds	2,707	23	2,730	2,260	20	2,280	23.10	23.91	23.11	87.56	86.44	87.55
Lennox	1,648	12	1,660	1,358	10	1,368	25.51	18.25	25.46	86.25	89.22	86.27
Lincoln	2,901	......	2,901	2,471	......	2,471	19.76	......	19.76	89.21	......	89.21
Middlesex	4,689	71	4,760	4,178	58	4,236	18.38	24.10	18.47	89.98	86.30	89.93
Norfolk	3,759	107	3,866	2,933	106	3,039	28.16	19.48	27.92	84.28	90.09	84.45
Northumberland	2,506	67	2,573	2,110	57	2,167	22.59	23.64	22.62	87.86	87.45	87.85
Ontario	3,560	61	3,621	2,992	55	3,047	19.54	18.95	19.53	89.19	89.54	89.20
Oxford	3,716	......	3,716	3,116	......	3,116	15.97	......	15.97	91.00	......	91.00
Peel	2,515	5	2,520	2,070	4	2,074	20.19	6.80	20.17	88.65	95.58	88.66
Perth	3,235	300	3,535	2,674	275	2,949	15.08	21.44	15.62	91.64	89.04	91.40
Peterborough	2,240	96	2,336	1,883	76	1,959	26.14	21.32	25.95	86.77	87.71	86.81
Prescott	1,107	2,125	3,232	953	1,919	2,872	20.12	16.21	17.55	89.21	91.43	90.67
Prince Edward	1,487	......	1,487	1,201	......	1,201	28.93	......	28.93	84.56	......	84.56
Renfrew	4,088	622	4,710	3,251	546	3,797	29.63	16.09	27.84	84.01	91.22	84.96
Russell	725	2,167	2,892	634	2,015	2,649	16.38	15.14	15.45	91.13	92.37	92.07
Simcoe	5,643	281	5,924	4,764	256	5,020	22.54	13.44	22.10	87.64	92.66	87.88
Stormont	2,640	527	3,167	1,961	478	2,439	19.10	14.21	18.28	88.33	90.62	88.76
Victoria	1,910	64	1,974	1,562	53	1,615	21.32	19.47	21.26	87.10	88.84	87.15
Waterloo	3,450	417	3,867	3,070	387	3,457	12.38	10.88	12.22	93.36	94.29	93.46
Welland	2,905	......	2,905	2,534	......	2,534	21.83	......	21.83	88.45	......	88.45
Wellington	3,417	128	3,545	2,943	118	3,061	17.98	14.56	17.86	90.35	91.17	90.39
Wentworth	3,353	94	3,447	2,795	89	2,884	21.19	10.39	20.91	88.40	94.73	88.57
York	6,609	1,996	8,605	5,699	1,823	7,522	18.84	12.93	17.47	89.56	93.33	90.38
Totals and Averages	127,880	14,519	142,399	107,400	13,193	120,593	20.96	15.87	20.44	88.44	91.52	88.77
In Districts												
Algoma	2,768	74	2,842	2,295	65	2,360	25.69	20.09	25.54	86.33	89.02	86.40
Cochrane	2,601	3,314	5,915	2,764	2,516	5,280	27.07	27.28	27.19	85.95	86.75	86.40
Kenora	1,132	31	1,163	920	25	945	18.41	39.87	18.98	89.65	79.87	89.36
Manitoulin	1,148	71	1,219	936	62	998	26.56	31.27	26.83	85.70	84.03	85.60
Muskoka	2,098	81	2,179	1,712	55	1,767	28.45	49.36	29.23	84.41	72.49	83.97
Nipissing	1,809	1,813	3,622	1,498	1,518	3,016	25.81	18.99	22.40	86.11	89.96	88.05
Parry Sound	2,762	25	2,787	2,283	20	2,303	27.50	22.08	27.45	85.38	87.19	85.40
Rainy River	1,674	72	1,746	1,325	63	1,388	28.56	27.18	28.51	84.46	86.11	84.53
Sudbury	3,397	2,003	5,400	2,707	1,770	4,477	25.36	20.60	23.15	89.01	88.88	88.77
Temiskaming	2,037	1,490	3,527	1,610	1,374	2,984	31.22	14.86	24.31	83.10	92.21	87.02
Thunder Bay	2,931	33	2,964	2,424	29	2,453	23.56	17.88	23.50	87.30	90.38	87.33
Totals and Averages	24,357	9,007	33,364	20,474	7,497	27,971	26.35	22.23	25.24	86.19	88.66	86.85
All Ordinary Rural	152,237	23,526	175,763	127,874	20,690	148,564	21.81	18.31	21.35	88.07	90.43	88.38

*Exclusive of large fully graded rural public schools listed below.

LARGE SUBURBAN AND SEMI-URBAN PUBLIC SCHOOLS

County	Township	School Section No.	Adjacent to	May Enrolment	Average Daily Attendance for the School Year	Days Lost per Year per pupil of May Enrolment	Attendance Efficiency Percentage
Brant	Brantford	3	Brantford	269	244	17.08	91.08
Carleton	Nepean	2	Ottawa	1,027	932	12.71	93.33
Essex	Sandwich East	5	Windsor	580	526	13.09	93.15
Lincoln	Grantham	U5, 6	St. Catharines	281	250	19.49	89.94
Ontario	Whitby East	10	Oshawa	435	407	15.97	91.99

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 1—ENROLMENT AND ATTENDANCE, 1937-38

County	Township	School Section No.	Adjacent to	May Enrolment	Average Daily Attendance for the School Year	Days Lost per Year per pupil of May Enrolment	Attendance Efficiency Percentage
Peel	Toronto	7	Lakeview	504	457	17.25	89.93
Peterborough	Managhan North	2	Peterborough	378	318	19.79	89.90
Welland	Stamford	4	Niagara Falls	301	268	20.70	89.44
	Stamford	6	Niagara Falls	518	434	13.89	92.25
	Stamford	7	Niagara Falls	293	267	15.38	92.10
	Bertie	11	Ridgeway	282	248	22.25	88.64
	Crowland	3	Welland	647	620	11.45	94.26
	Thorold	2	Thorold	225	210	6.23	96.72
Wentworth	Burlington Beach	....	Hamilton	244	221	21.86	89.02
York	Etobicoke	3	Lambton Mills	415	371	14.74	91.20
	Etobicoke	5	Weston	308	267	13.15	91.71
	Etobicoke	8	Islington	331	309	13.18	92.37
	Etobicoke	11	Humber Bay	461	440	8.83	94.86
	Etobicoke	16	Long Branch	495	465	13.47	92.27
	York	Twp.	Toronto	11,350	10,523	10.70	93.68
	York, East	Twp.	Toronto	5,814	5,407	11.88	93.12
	York, North	3	Toronto	1,417	1,306	12.84	92.47
	Scarboro	10	Toronto	860	802	12.65	93.88
	Scarboro	12	Toronto	860	728	11.65	92.51
	Scarboro	13	Toronto	448	408	11.57	93.07
	Scarboro	15	Toronto	560	504	15.03	91.06
Totals and Averages, Counties		....	....	29,303	26,932	12.23	93.00
District			*Centre*				
Cochrane	Tisdale	1	South Porcupine	689	630	12.34	93.56
	Tisdale	2	Schumacher	699	667	9.92	94.94
Parry Sound	Himsworth	U, 4	Callander	240	214	17.77	90.79
Sudbury	Chapleau	1	Chapleau	181	169	15.56	92.22
	Snider and Creighton	U, 1	Creighton Mine	310	295	6.61	96.58
	Garson	3	Garson Mine	213	206	11.60	94.14
Timiskaming	Tech	Sch. Area	Kirkland Lake	2,097	1,941	13.64	93.00
Thunder Bay	Schreiber	1	Schreiber	174	164	13.25	93.33
Totals and Averages, Districts		....	....	4,603	4,286	12.60	.93.53
All Large Suburban and Semi-Urban Schools		....	....	33,906	31,218	12.29	93.08

URBAN SCHOOLS

Cities	May Enrolment			Average Attendance for the School Year			Days Lost per Year per Pupil of May Enrolment			Attendance Efficiency Percentage		
	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total
In Counties												
Belleville	1,803	457	2,260	1,656	423	2,079	16.11	14.88	15.87	91.71	92.28	91.82
Brantford	3,761	698	4,459	3,465	637	4,102	14.00	11.80	13.66	92.84	93.69	92.97
Chatham	2,018	601	2,619	1,813	554	2,367	14.80	14.59	14.76	91.92	91.90	91.92
Galt	1,755	242	1,997	1,640	232	1,872	7.95	10.49	8.26	95.84	94.62	95.69
Guelph	2,479	892	3,371	2,287	840	3,127	14.15	10.67	13.21	93.16	94.49	93.20
Hamilton	20,499	4,531	25,030	18,623	4,275	22,898	16.6	9.63	15.33	91.47	94.94	92.09
Kingston	2,820	893	3,713	2,565	821	3,386	15.11	16.89	16.66	90.92	90.61	90.85
Kitchener	4,019	1,779	5,798	3,860	1,697	5,557	11.11	6.31	9.64	94.34	96.69	95.01
London	8,862	1,481	10,343	8,251	1,405	9,656	12.45	10.78	12.21	93.49	94 10	93.47
Niagara Falls	2,485	479	2,964	2,345	436	2,781	14.11	16.72	14.54	92.87	91.29	92.63
Oshawa	3,739	479	4,218	3,470	440	3,910	12.16	15.16	13.11	93.72	92.13	93.29
Ottawa	9,762	11,335	21,097	9,168	10,783	19,951	17.10	9.99	13.24	95.60	94.67	95.13
Owen Sound	2,034	157	2,191	1,883	143	2,026	13.83	15.07	13.64	92.63	97.11	92.78
Peterborough	2,839	1,020	3,859	2,588	921	3,509	15.07	15.43	15.17	92.18	91.82	92.09
St. Catharines	3,399	787	4,186	3,173	725	3,898	14.13	11.63	13.72	92.71	93.59	92.87
St. Thomas	1,761	256	2,017	1,734	232	1,966	12.00	11.94	11.99	93.84	93.17	93.76
Sarnia	2,428	510	2,938	2,234	487	2,721	12.56	12.15	12.49	93.32	93.60	93.37
Stratford	2,124	418	2,542	2,004	395	2,399	9.86	6.63	9.30	94.49	96.21	94.77
Toronto	80,465	11,875	92,340	73,050	10,938	83,988	12.67	7.09	11.95	92.45	95.57	92.84
Welland	1,897	....	1,897	1,774	....	1,774	11.90	......	11.90	93.08	......	93.08
Windsor	11,892	7,690	19,582	10,908	7,269	18,177	13.71	12.26	13.14	92.96	88.59	93.83
Woodstock	1,404	165	1,569	1,302	143	1,445	14.65	15.06	14.69	92.29	91.44	92.21
Totals and Averages	174,245	46,745	220,990	159,793	43,796	203,589	13.60	10.06	12.85	92.77	93.53	92.93
In Districts												
Fort William	3,271	1,218	4,489	3,036	1,133	4,169	10.27	8.67	9.84	94.63	95.34	94.82
North Bay	1,441	1,476	2,917	1,349	1,364	2,713	11.20	9.53	10.36	93.90	94.59	94.27
Port Arthur	2,487	722	3,209	2,316	657	2,973	14.16	12.97	13.89	92.78	93.07	92.85
Sault Ste. Marie	3,075	1,411	4,486	2,824	1,245	4,069	16.31	14.81	15.84	91.68	91.94	91.77
Sudbury	1,889	1,432	3,321	1,696	1,355	3,051	16.94	9.08	13.56	91.30	95.24	92.98
Totals and Averages	12,163	6,259	18,422	11,221	5,754	16,975	13.74	10.85	12.76	92.90	94.12	93.30
All Cities	186,408	53,004	239,412	171,014	49,550	220,564	13.61	10.15	12.84	92.78	93.60	92.96

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 1—ENROLMENT AND ATTENDANCE, 1937-38

Towns	May Enrolment			Average Attendance for the School Year			Days Lost per Year per Pupil of May Enrolment			Attendance Efficiency Percentage		
	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total
In Counties												
Alexandria....	47	454	501	34	424	458	15.14	13.82	13.94	90.19	92.80	92.60
Alliston.......	237	....	237	209	....	209	14.91	......	14.91	91.60	......	91.60
Almonte......	257	105	362	251	101	352	12.28	6.37	10.57	94.08	96.67	94.67
Amherstburg..	210	342	552	190	306	496	17.70	10.92	13.53	90.87	94.02	92.78
Arnprior.....	393	367	760	376	340	716	10.26	13.33	12.03	94.74	92.67	93.76
Aurora.......	420	....	420	390	....	390	16.19	......	16.19	91.36	......	91.36
Aylmer.......	402	....	402	360	....	360	11.10	......	11.10	93.73	......	93.73
Barrie........	1,141	105	1,246	1,023	99	1,122	11.42	9.08	11.22	93.39	94.10	93.49
Blenheim.....	305	36	341	285	29	314	10.08	16.25	10.73	94.32	89.84	93.89
Bothwell......	86	....	86	82	....	82	10.08	......	10.08	94.57	......	94.57
Bowmanville..	525	....	525	501	....	501	13.41	......	13.41	93.31	......	93.31
Brampton.....	729	....	729	678	....	678	12.24	......	12.24	93.01	......	93.01
Brockville....	1,243	232	1,475	1,142	223	1,365	18.60	11.62	16.19	90.90	93.71	91.36
Burlington....	499	....	499	451	....	451	16.85	......	16.85	92.50	......	92.50
Campbellford .	421	73	494	384	64	448	15.71	13.38	15.37	91.41	92.24	91.53
Carleton Place	630	....	630	598	....	598	12.44	......	12.44	93.73	......	93.73
Chesley.......	244	....	244	229	....	229	9.15	......	9.15	95.21	......	95.21
Clinton.......	213	....	213	199	....	199	9.12	......	9.12	94.92	......	94.92
Cobourg......	690	183	873	628	171	799	11.96	12.80	12.14	93.40	93.20	93.37
Collingwood ..	821	40	861	737	33	770	14.28	16.45	14.38	92.23	90.38	92.15
Cornwall......	968	2,724	3,692	864	2,500	3,364	11.78	13.85	13.31	93.26	92.26	92.52
Deseronto....	204	....	204	175	....	175	24.76	......	24.76	86.99	......	86.99
Dresden......	232	....	232	204	....	204	19.30	......	19.30	89.65	......	89.65
Dundas.......	639	107	746	578	107	685	12.68	12.11	12.59	93.22	93.99	93.34
Dunnville.....	478	....	478	463	....	463	8.03	......	8.03	95.59	......	95.59
Durham......	273	....	273	249	....	249	14.76	......	14.76	93.07	......	93.07
Eastview.....	222	1,394	1,616	192	1,323	1,515	16.61	7.88	9.08	91.09	95.90	95.25
Elmira.......	343	....	343	328	....	328	4.96	......	4.96	97.41	......	97.41
Essex........	285	48	333	256	41	297	16.21	17.72	16.45	91.56	90.13	91.37
Forest........	185	....	185	172	....	172	12.04		12.04	93.86	......	93.86
Fort Erie.....	964	....	964	885	....	885	16.07	......	16.07	91.84	......	91.84
Gananoque....	435	136	571	391	129	520	17.07	10.47	15.51	90.92	94.34	91.73
Georgetown...	301	....	301	274	....	274	15.90	......	15.90	91.20	......	91.20
Goderich.....	554	62	616	525	58	583	11.76	13.60	11.98	93.94	92.55	93.51
Grimsby.....	304	....	304	274	....	274	15.77	......	15.77	91.74	......	91.74
Hanover.....	477	70	547	450	67	517	10.82	9.75	10.80	93.91	94.86	93.92
Harriston.....	209	....	209	192	....	192	9.74	......	9.74	94.87	......	94.87
Harrow.......	192	....	192	175	....	175	13.30	......	13.30	93.03	......	93.03
Hawkesbury..	118	1,288	1,406	111	1,200	1,311	12.49	15.10	14.89	94.65	92.21	92.33
Hespeler......	446	37	483	427	34	461	6.25	4.58	61.20	96.73	97.47	96.78
Ingersoll......	764	88	852	667	79	746	15.37	9.70	14.67	91.82	94.70	92.12
Kincardine....	342	....	342	321	....	321	11.67	......	11.67	93.97	......	93.97
Kingsville.....	402	....	402	360	....	360	26.56	......	26.56	86.86	......	86.86
La Salle......	45	164	209	29	154	183	28.61	17.29	19.73	84.29	91.19	89.51
Leamington...	751	97	848	707	91	798	14.15	13.95	14.13	92.83	92.83	92.83
Leaside.......	422	....	422	405	....	405	12.50	......	12.50	93.01	......	93.01
Lindsay......	926	201	1,127	845	169	1,014	16.95	14.71	16.55	91.10	91.43	91.15
Listowel......	339	....	339	316	....	316	11.78	......	11.78	93.46	......	93.46
Meaford......	314	....	314	284	....	284	12.46	......	12.46	92.78	......	92.78
Merritton.....	343	65	408	299	60	359	11.52	9.21	11.15	93.17	94.66	93.41
Midland......	786	414	1,200	655	405	1,060	11.90	6.04	9.96	93.92	97.08	94.89
Milton.......	290	....	290	267	....	267	12.87	......	12.87	92.94	......	92.94
Mimico.......	1,052	255	1,307	997	240	1,237	8.79	9.23	8.89	94.93	94.27	94.80
Mitchell......	242	....	242	219	....	219	12.09	......	12.09	93.37	......	93.37
Mount Forest.	187	44	231	176	38	214	13.32	13.35	13.32	93.29	92.66	93.17
Napanee......	439	....	439	398	....	398	17.08	......	17.08	90.46	......	90.46
Newmarket...	524	52	576	499	45	544	13.24	12.12	13.05	92.98	93.53	93.02
New Toronto..	1,200	....	1,200	1,135	....	1,135	9.70	......	9.70	94.49	......	94.49
Niagara......	181	....	181	165	....	165	23.07	......	23.07	88.38	......	88.38
Oakville......	491	44	535	450	40	490	23.40	18.26	20.41	90.71	89.81	90.64
Orangeville....	324	....	324	303	....	303	9.88	......	9.88	94.31	......	94.31
Orillia........	1,213	178	1,391	1,125	156	1,281	16.13	21.13	16.77	91.68	88.83	91.46
Palmerston....	206	....	206	192	....	192	6.52	......	6.52	96.47	......	96.47
Paris.........	510	53	563	471	48	519	9.90	9.66	9.88	94.93	94.20	94.82
Parkhill......	120	23	143	109	21	130	19.65	11.20	18.32	89.81	93.80	90.39
Pembroke.....	945	902	1,847	847	871	1,718	11.77	10.96	11.38	94.00	94.43	94.08
Penetanguishene.......	903	....	903	828	....	828	10.45	......	10.45	94.22	......	94.22
Perth.........	412	152	594	408	138	546	18.27	7.51	15.52	90.84	94.88	91.82
Petrolia.......	388	....	388	358	....	358	15.36	......	15.36	91.95	......	91.95
Picton........	462	49	511	412	44	456	19.56	15.28	19.15	89.55	91.73	89.76
Port Colhorne.	1,427	....	1,427	1,336	....	1,336	14.15	......	14.15	92.41	......	92.41
Port Hope....	656	....	656	615	....	615	11.63	......	11.63	93.78	......	93.78
Prescott......	335	104	439	266	89	355	23.59	11.34	20.69	86.70	93.24	88.19
Preston.......	675	307	982	633	301	934	10.14	4.94	8.52	94.50	97.07	95.30
Renfrew......	393	562	955	377	544	921	12.05	6.79	8.95	93.96	96.47	95.42
Ridgetown....	281	....	281	256	....	256	9.66	......	9.66	94.65	......	94.65
Riverside.....	564	495	1,059	519	467	986	18.93	11.13	15.29	90.45	94.19	92.17
Rockland.....	22	480	502	19	466	485	11.79	10.14	10.22	93.43	94.84	94.79
St. Mary's....	415	54	469	384	42	426	15.32	23.36	16.26	92.11	86.54	91.54
Seaforth......	183	57	240	165	49	214	10.56	9.77	10.38	94.16	94.34	94.20

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 1—ENROLMENT AND ATTENDANCE, 1937-38

Towns	May Enrolment			Average Attendance for the School Year			Days Lost per Year per Pupil of May Enrolment			Attendance Efficiency Percentage		
	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total
In Counties												
Simcoe.......	876	....	876	798	....	798	13.30	......	13.30	92.51	......	92.51
Smith's Falls..	960	171	1,131	882	155	1,037	12.89	13.10	12.92	93.26	92.85	93.20
Southampton..	221	....	221	196	....	196	13.77	......	13.77	92.51	......	92.51
Stayner.......	126	....	126	118	....	118	9.89	......	9.89	94.68	......	94.68
Strathroy.....	407	....	407	370	....	370	12.83	......	12.83	93.26	......	93.26
Tecumseh.....	70	555	625	59	522	581	23.85	13.33	14.51	87.37	93.09	92.47
Thornbury....	105	....	105	95	....	95	9.43	......	9.43	94.93	......	94.93
Thorold.......	507	354	861	486	331	817	11.62	9.12	10.60	94.12	95.19	94.55
Tilbury.......	138	254	392	126	227	353	14.19	18.93	17.27	92.61	90.12	91.00
Tillsonburg...	570	....	570	537	....	537	10.49	......	10.49	94.28	......	94.28
Trenton......	945	210	1,155	904	196	1,100	13.29	14.14	13.45	92.98	92.31	92.86
Uxbridge.....	235	....	235	220	....	220	17.13	......	17.13	91.46	......	91.46
Vankleek Hill.	73	207	280	61	191	252	14.57	12.32	12.91	91.84	93.50	93.09
Walkerton....	196	210	406	187	200	387	13.10	6.72	9.72	93.32	96.47	94.91
Wallaceburg...	577	417	994	545	371	916	13.10	19.20	15.66	92.94	89.25	91.43
Waterloo.....	1,035	422	1,457	967	401	1,368	11.92	9.36	11.18	93.88	95.03	94.21
Weston.......	678	197	875	626	187	813	13.97	12.29	13.25	91.87	93.63	92.27
Whitby.......	485	38	523	434	36	470	15.79	9.90	15.34	91.73	94.99	91.98
Wiarton......	287	....	287	273	....	273	11.09	......	11.09	94.41	......	94.41
Wingham.....	240	....	240	228	....	228	6.56	......	6.56	96.41	......	96.41
Totals and Averages....	46,577	15,678	62,255	42,861	14,623	57,484	13.44	11.94	13.06	93.28	93.60	93.36
In Districts												
Bala.........	84	....	84	68	....	68	14.19	......	14.19	91.31	......	91.31
Blind River...	223	349	572	189	385	574	16.32	17.92	17.30	91.55	91.55	91.55
Bonfield......	....	171	171	....	152	152	......	8.90	8.90	......	95.19	95.19
Bracebridge...	419	....	419	383	....	383	16.90	......	16.90	90.49	......	90.49
Bruce Mines..	105	....	105	97	....	97	20.53	......	20.53	89.84	......	89.84
Cache Bay....	62	147	209	59	140	199	17.87	19.65	19.12	91.32	90.19	90.54
Capreol.......	381	....	381	360	....	360	12.62	......	12.62	93.14	......	93.14
Charlton......	87	27	114	68	22	90	25.00	28.66	25.86	85.96	84.68	85.65
Chelmsford...	....	238	238	....	216	216	......	12.01	12.01	......	93.55	93.55
Cobalt........	377	330	707	344	309	653	13.87	10.66	12.38	92.78	94.38	93.52
Cochrane.....	372	280	652	348	263	611	10.18	15.11	12.30	94.75	92.26	93.68
Coniston......	104	400	504	94	379	473	16.57	10.67	12.15	91.43	94.29	93.70
Copper Cliff...	561	....	561	524	....	524	8.48	......	8.48	95.61	......	95.61
Dryden........	381	....	381	346	....	346	18.60	......	18.60	90.52	......	90.52
Englehart.....	292	....	292	269	....	269	11.01	......	11.01	94.22	......	94.22
Fort Frances..	995	336	1,331	873	277	1,150	14.17	11.38	13.48	92.30	93.30	92.54
Frood Mine...	23	....	23	22	....	22	21.81	......	21.81	95.64	......	95.64
Geraldton.....	170	....	170	132	....	132	10.69	......	10.69	93.43	......	93.43
Gore Bay.....	140	....	140	115	....	115	21.24	......	21.24	88.34	......	88.34
Gravenhurst...	391	....	391	360	....	360	13.83	......	13.83	92.15	......	92.15
Haileybury....	258	195	453	227	180	407	18.66	11.07	15.39	90.22	94.11	91.88
Hearst........	114	191	305	99	159	258	12.68	10.00	11.01	92.48	94.13	93.68
Huntsville....	493	....	493	437	....	437	19.51	......	19.51	89.53	......	89.53
Iroquois Falls.	216	242	458	198	236	434	13.63	5.83	9.51	92.97	96.98	95.09
Kapuskasing..	399	580	979	363	537	900	16.36	13.80	14.80	91.57	92.79	92.29
Kearney......	62	23	85	56	22	78	12.48	15.53	13.29	93.20	92.11	92.89
Keewatin.....	225	42	267	196	37	233	15.94	13.57	15.56	91.51	92.61	91.68
Kenora.......	1,039	231	1,270	982	201	1,183	16.16	15.91	16.11	91.96	91.31	91.85
Larder Lake...	153	....	153	125	....	125	23.44	......	23.44	87.34	......	87.34
Latchford.....	78	....	78	74	....	74	29.62	......	29.62	85.78	......	85.78
Little Current.	137	41	178	115	37	152	26.96	18.05	24.91	85.76	90.54	87.03
Massey.......	88	82	170	75	86	161	19.11	24.20	22.48	89.66	87.03	88.35
Matheson.....	122	....	122	89	....	89	27.18	......	27.18	83.50	......	83.50
Mattawa.....	41	359	400	35	319	354	29.20	26.58	26.86	85.10	86.42	86.28
Nesterville....	52	....	52	43	....	43	27.80	......	27.80	85.50	......	85.50
New Liskeard.	444	89	533	405	75	480	13.83	19.06	14.71	92.83	89.46	92.29
Parry Sound..	622	....	622	556	....	556	16.27	......	16.27	91.46	......	91.46
Powassan.....	185	....	185	170	....	170	12.65	......	12.65	93.11	......	93.11
Rainy River...	168	47	215	153	39	192	16.90	15.72	16.68	91.39	91.04	91.26
Sioux Lookout.	339	133	472	306	119	425	14.30	18.75	15.60	92.34	90.27	91.87
Smooth Rock Falls.......	140	218	358	132	191	323	8.39	15.08	12.47	95.25	91.70	93.33
Sturgeon Falls	195	1,034	1,229	171	917	1,088	15.91	17.35	17.13	91.50	91.35	90.95
Thessalon.....	316	....	316	281	....	281	20.87	......	20.87	89.38	......	89.38
Timmins......	2,249	2,426	4,675	2,079	2,312	4,391	11.72	10.97	11.33	93.92	94.33	94.14
Trout Creek...	68	....	68	65	....	65	17.41	......	17.41	91.08	......	91.08
Webbwood....	109	....	109	94	....	94	28.20	......	28.20	85.87	......	85.87
Totals and Averages....	13,479	8,211	21,690	12,177	7,610	19,787	15.14	13.83	14.64	92.05	92.76	92.32
All Towns...	60,056	23,889	83,945	55,038	22,233	77,271	13.82	12.59	13.47	92.99	93.30	93.08
Villages *In Counties*												
Acton........	269	....	269	251	....	251	13.40	......	13.40	93.17	......	93.17
Ailsa Craig....	53	....	53	48	....	48	15.76	......	15.76	91.43	......	91.43

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 1—ENROLMENT AND ATTENDANCE, 1937-38

Villages	May Enrolment			Average Attendance for the School Year			Days Lost per Year per Pupil of May Enrolment			Attendance Efficiency Percentage		
	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total
In Counties												
Alvinston	86	......	86	79	......	79	17.69	......	17.69	90.58	......	90.58
Arkona	79	......	79	69	......	69	18.35	......	18.35	90.44	......	90.44
Arthur	125	72	197	113	66	179	11.29	8.30	10.18	94.00	95.55	94.56
Athens	109	......	109	95	......	95	16.90	......	16.90	91.00	......	91.00
Ayr	94	......	94	86	......	86	7.85	......	7.85	95.79	......	95.79
Bancroft	230	......	230	203	......	203	24.50	......	24.50	87.59	......	87.59
Barry's Bay	33	271	304	23	253	276	41.50	10.60	13.97	76.47	94.35	92.50
Bath	56	......	56	46	......	46	13.99	......	13.99	91.52	......	91.52
Beamsville	198	......	198	167	......	167	23.17	......	23.17	87.76	......	87.76
Beaverton	146	......	146	125	......	125	18.70	......	18.70	89.48	......	89.48
Beeton	105	......	105	97	......	97	13.69	......	13.69	92.79	......	92.79
Belle River	8	206	214	7	191	198	12.50	12.89	12.87	93.10	93.23	93.21
Bloomfield	98	......	98	93	......	93	11.43	......	11.43	93.70	......	92.70
Blyth	80	......	80	71	......	71	13.86	......	13.86	92.37	......	92.37
Bobcaygeon	140	......	140	135	......	135	10.57	......	10.57	94.58	......	94.58
Bolton	85	......	85	76	......	76	24.88	......	24.88	86.31	......	86.31
Bradford	112	......	112	107	......	107	13.50	......	13.50	92.91	......	92.91
Braeside	95	......	95	91	......	91	13.24	......	13.24	93.38	......	93.38
Brighton	221	......	221	199	......	199	19.70	......	19.70	89.97	......	89.97
Brussels	93	......	93	87	......	87	10.10	......	10.10	94.44	......	94.44
Caledonia	190	......	190	180	......	180	8.93	......	8.93	95.10	......	95.10
Cannington	99	......	99	96	......	96	13.97	......	13.97	92.72	......	92.72
Cardinal	268	......	268	255	......	255	12.85	......	12.85	93.40	......	93.40
Casselman	......	260	260	......	250	250	......	9.14	9.14	......	95.13	95.13
Cayuga	117	......	117	95	......	95	8.42	......	8.42	94.85	......	94.85
Chatsworth	58	......	58	47	......	47	9.03	......	9.03	94.67	......	94.67
Chesterville	145	42	187	140	40	180	13.13	13.19	13.14	93.32	93.19	93.29
Chippawa	194	......	194	181	......	181	14.60	......	14.60	92.35	......	92.35
Clifford	70	......	70	68	......	68	10.18	......	10.18	94.94	......	94.94
Cobden	91	......	91	85	......	85	15.40	......	15.40	92.23	......	92.23
Colborne	167	......	167	144	......	144	22.20	......	22.20	88.38	......	88.38
Coldwater	140	......	140	128	......	128	17.50	......	17.50	91.03	......	91.03
Courtright	62	......	62	57	......	57	18.98	......	18.98	90.51	......	90.51
Creemore	78	......	78	73	......	73	11.27	......	11.27	93.71	......	93.71
Delhi	313	......	313	272	......	272	16.68	......	16.68	89.54	......	89.54
Deloro	59	......	59	54	......	54	11.42	......	11.42	94.09	......	94.09
Drayton	69	......	69	66	......	66	11.98	......	11.98	93.97	......	93.97
Dundalk	98	......	98	93	......	93	14.66	......	14.66	92.65	......	92.65
Dutton	123	......	123	114	......	114	13.58	......	13.58	92.90	......	92.90
Eganville	108	260	368	102	210	312	16.31	8.55	10.83	91.88	95.39	93.78
Elora	160	33	193	151	31	182	16.20	10.00	14.91	92.05	95.11	92.57
Embro	66	......	66	60	......	60	11.93	......	11.93	93.87	......	93.87
Erieau	46	......	46	42	......	42	13.27	......	13.27	93.14	......	93.14
Erin	86	......	86	75	......	75	17.37	......	17.37	90.45	......	90.45
Exeter	217	......	217	195	......	195	12.56	......	12.56	93.38	......	93.38
Fenelon Falls	144	......	144	135	......	135	14.17	......	14.17	92.61	......	92.61
Fergus	399	26	425	389	23	412	7.13	12.52	7.46	96.38	93.45	96.21
Finch	87	......	87	78	......	78	20.54	......	20.54	89.03	......	89.03
Flesherton	62	......	62	57	......	57	10.48	......	10.48	93.70	......	93.70
Fonthill	171	......	171	156	......	156	16.40	......	16.40	91.64	......	91.64
Forest Hill	1,203	66	1,269	1,038	57	1,095	18.03	14.71	17.86	89.59	90.77	89.32
Frankford	163	......	163	152	......	152	12.77	......	12.77	93.02	......	93.02
Glencoe	132	......	132	122	......	122	14.90	......	14.90	92.20	......	92.20
Grand Valley	76	......	76	68	......	68	22.02	......	22.02	88.83	......	88.83
Hagersville	232	......	232	215	......	215	11.89	......	11.89	93.85	......	93.85
Hastings	104	47	151	97	46	143	14.81	13.12	14.39	92.33	93.43	92.73
Havelock	201	......	201	180	......	180	17.46	......	17.46	90.94	......	90.94
Hensall	88	......	88	83	......	83	8.58	......	8.58	95.09	......	95.09
Hepworth	52	......	52	48	......	48	14.49	......	14.49	92.65	......	92.65
Humberstone	534	......	534	487	......	487	13.18	......	13.18	92.76	......	92.76
Iroquois	98	......	98	90	......	90	13.78	......	13.78	92.91	......	92.91
Jarvis	99	......	99	94	......	94	11.34	......	11.34	93.74	......	93.74
Kemptville	208	......	208	181	......	181	11.34	......	11.34	93.78	......	93.78
Killaloe	45	111	156	41	94	135	22.23	14.27	16.57	88.89	91.89	90.97
Lakefield	265	......	265	208	......	208	19.32	......	19.32	88.93	......	88.93
Lanark	119	......	119	109	......	109	10.19	......	10.19	94.63	......	94.63
Lancaster	44	130	174	41	108	149	25.22	13.85	16.75	87.91	91.99	90.81
Lion's Head	80	......	80	72	......	72	29.84	......	29.84	85.64	......	85.64
Long Branch	819	......	819	742	......	742	15.36	......	15.36	90.93	......	90.93
L'Orignal	175	......	175	160	......	160	13.07	......	13.07	93.23	......	93.23
Lucan	96	......	96	89	......	89	14.20	......	14.20	92.36	......	92.36
Lucknow	139	......	139	125	......	125	16.37	......	16.37	91.18	......	91.18
Madoc	191	......	191	188	......	188	14.30	......	14.30	92.99	......	92.99
Markdale	122	......	122	105	......	105	11.26	......	11.26	93.21	......	93.21
Markham	164	......	164	158	......	158	9.60	......	9.60	95.01	......	95.01
Marmora	185	42	227	167	37	204	14.04	10.76	13.43	92.28	93.88	92.57
Maxville	118	......	118	106	......	106	19.61	......	19.61	89.82	......	89.82
Merrickville	141	......	141	126	......	126	16.20	......	16.20	91.60	......	91.60
Mildmay	64	109	173	52	107	159	9.93	5.01	6.89	94.42	97.35	96.28
Millbrook	144	......	144	109	......	109	17.42	......	17.42	89.50	......	89.50
Milverton	128	......	128	119	......	119	8.84	......	8.84	95.05	......	95.05
Morrisburg	248	......	248	221	......	221	11.17	......	11.17	93.73	......	93.73
Neustadt	97	......	97	96	......	96	7.05	......	7.05	95.46	......	95.46

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 1—ENROLMENT AND ATTENDANCE, 1937-38

Villages	May Enrolment			Average Attendance for the School Year			Days Lost per Year per Pupil of May Enrolment			Attendance Efficiency Percentage		
	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total	Public	Separate	Total
In Counties												
Newboro......	71	....	71	63	....	63	10.64	......	10.64	93.89	......	93.89
Newburgh....	68	....	68	64	....	64	23.70	......	23.70	88.70	......	88.70
Newbury.....	70	....	70	63	....	63	16.48	......	16.48	91.18	......	91.18
Newcastle.....	81	....	81	71	....	71	20.15	......	20.15	89.38	......	89.38
New Hamburg	207	....	207	194	....	194	7.96	......	7.96	95.84	......	95.84
Norwich......	178	....	178	183	....	183	13.77	......	13.77	92.10	......	92.10
Norwood.....	138	....	138	131	....	131	15.90	......	15.90	92.15	......	92.15
Oil Springs....	70	....	70	63	....	63	15.16	......	15.16	90.55	......	90.55
Omemee......	94	....	94	86	....	86	19.58	......	19.58	89.84	......	89.84
Paisley.......	112	....	112	102	....	102	11.89	......	11.89	93.77	......	93.77
Point Edward.	177	....	177	169	....	169	16.73	......	16.73	91.80	......	91.80
Port Credit...	295	....	295	271	....	271	16.47	......	16.47	90.48	......	90.48
Port Dalhousie	218	78	296	201	70	271	12.55	11.31	12.19	93.27	93.67	93.37
Port Dover...	297	....	297	244	....	244	17.94	......	17.94	89.39	......	89.39
Port Elgin....	182	....	182	163	....	163	16.00	......	16.00	91.17	......	91.17
Port McNichol	212	....	212	201	....	201	12.01	......	12.01	93.84	......	93.84
Port Perry....	161	....	161	149	....	149	9.30	......	9.30	95.10	......	95.10
Port Rowan...	95	....	95	81	....	81	15.71	......	15.71	91.43	......	91.43
Port Stanley..	103	....	103	92	....	92	22.19	......	22.19	88.56	......	88.56
Portsmouth...	110	43	153	86	40	126	14.49	4.72	11.75	90.81	97.30	92.78
Richmond....	76	....	76	68	....	68	7.34	......	7.34	96.03	......	96.03
Richmond Hill	276	....	276	239	....	239	17.70	......	17.70	89.48	......	89.48
Ripley........	52	....	52	47	....	47	9.45	......	9.45	94.94	......	94.94
Rockcliffe.....	120	....	120	109	....	109	24.82	......	24.82	87.72	......	87.72
Rodney.......	103	....	103	96	....	96	15.62	......	15.62	91.93	......	91.93
St. Clair Beach	45	....	45	16	....	16	22.15	......	22.15	87.62	......	87.62
Shallow Lake..	78	....	78	71	....	71	14.01	......	14.01	92.74	......	92.74
Shelbourne....	140	....	140	126	....	126	12.41	......	12.41	93.36	......	93.36
Springfield....	78	....	78	73	....	73	9.85	......	9.85	94.79	......	94.79
Stirling.......	144	....	144	136	....	136	17.52	......	17.52	91.06	......	91.06
Stoney Creek..	245	....	245	199	....	199	16.90	......	16.90	90.42	......	90.42
Stouffville....	192	....	192	156	....	156	14.40	......	14.40	91.39	......	91.39
Streetsville....	137	....	137	130	....	130	14.67	......	14.67	92.42	......	92.42
Sutton........	210	....	210	169	....	169	26.19	......	26.19	85.46	......	85.46
Swansea......	646	34	680	606	31	637	11.07	8.98	10.97	93.51	94.51	93.56
Tara.........	62	....	62	53	....	53	11.60	......	11.60	93.33	......	93.33
Tavistock.....	122	....	122	118	....	118	9.93	......	9.93	94.95	......	94.95
Teeswater....	94	31	125	83	28	111	10.68	11.93	10.99	94.19	93.82	94.10
Thamesville...	157	....	157	136	....	136	8.36	......	8.36	95.11	......	95.11
Thedford.....	101	....	101	87	....	87	18.65	......	18.65	90.30	......	90.30
Tiverton......	46	....	46	40	....	40	7.73	......	7.73	95.52	......	95.52
Tottenham....	95	....	95	76	....	76	18.29	......	18.29	89.34	......	89.34
Tweed........	185	105	290	177	99	276	15.38	15.73	15.51	92.40	91.87	92.21
Victoria Harb'r	209	....	209	197	....	197	16.27	......	16.27	91.94	......	91.94
Vienna.......	72	....	72	47	....	47	15.85	......	15.85	88.05	......	88.05
Wardsville....	48	....	48	39	....	39	19.21	......	19.21	88.99	......	88.99
Waterdown...	154	....	154	138	....	138	16.39	......	16.39	91.49	......	91.49
Waterford....	187	....	187	168	....	168	14.71	......	14.71	92.33	......	92.33
Watford......	147	....	147	129	....	129	12.82	......	12.82	93.12	......	93.12
Wellington....	237	....	237	203	....	203	25.00	......	25.00	86.96	......	86.96
West Lorne...	172	....	172	155	....	155	12.25	......	12.25	93.32	......	93.32
Westport.....	59	91	150	52	84	136	12.95	10.77	11.55	92.75	94.86	93.72
Wheatley.....	157	....	157	145	....	145	10.66	......	10.66	94.35	......	94.35
Winchester....	178	....	178	163	....	163	11.17	......	11.17	93.73	......	93.73
Woodbridge...	155	....	155	144	....	144	14.55	......	14.55	92.27	......	92.27
Woodville.....	58	....	58	50	....	50	16.98	......	16.98	90.80	......	90.80
Wyoming.....	62	....	62	57	....	57	17.72	......	17.72	90.96	......	90.96
Totals and Averages....	21,214	2,057	23,271	19,120	1,865	20,985	15.60	10.73	15.17	91.80	94.14	92.00
In Districts												
Burk's Falls...	150	....	150	133	....	133	24.26	......	24.26	87.74	......	87.74
Hilton Beach .	36	....	36	36	....	36	20.40	......	20.40	90.55	......	90.55
Port Carling...	92	....	92	77	....	77	12.28	......	12.28	92.48	......	92.48
Port Sydney...	30	....	30	27	....	27	44.40	......	44.40	79.36	......	79.36
Rosseau......	44	....	44	41	....	41	11.14	......	11.14	94.13	......	94.13
South River...	163	....	163	153	....	153	11.41	......	11.41	94.10	......	94.10
Sundridge.....	134	....	134	120	....	120	18.44	......	18.44	89.66	......	89.66
Thornloe.....	17	29	46	15	22	37	23.10	9.60	14.74	88.02	94.19	91.66
Windermere...	22	....	22	16	....	16	23.20	......	23.20	86.37	......	86.37
Totals and Averages....	688	29	717	618	22	640	18.27	9.60	17.92	90.34	94.19	90.48
All Villages	21,902	2,086	23,988	19,738	1,887	21,625	15.68	10.72	15.25	91.75	94.14	91.95
All Urban...	268,366	78,979	347,345	245,790	73,670	319,460	13.82	10.90	13.16	92.74	93.52	92.92
Grand Totals	454,509	102,505	557,014	404,882	94,360	499,242	16.39	12.60	15.70	91.22	92.80	91.51
Increase for Year.....	....	1,495	639	....	1.587	....	......	......	......	.70	.07	.60
Decrease for Year..	856	....	....	2,874	....	1,287	.59	.82	.64	......	......	......

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 2—PERCENTAGE SUMMARY OF ATTENDANCE EFFICIENCY BY VARIOUS PERIODS OF THE SCHOOL YEAR, 1937-38

	Public Schools					Separate Schools					Public and Separate Schools				
	Under 50 Days	50-99 Days	100-149 Days	150-199 Days (but not full teaching year)	Full Teaching Year	Under 50 Days	50-99 Days	100-149 Days	150-199 Days (but not full teaching year)	Full Teaching Year	Under 50 Days	50-99 Days	100-149 Days	150-199 Days (but not full teaching year)	Full Teaching Year
Rural Schools	11.11	6.98	13.72	65.01	3.18	7.77	8.00	13.89	65.17	5.17	10.75	7.09	13.74	65.03	3.39
Urban "	5.55	4.48	12.01	74.30	3.66	4.59	4.41	10.97	71.19	8.84	5.35	4.46	11.79	73.65	4.75
City "	5.49	4.51	12.74	73.47	3.79	4.84	4.47	11.94	70.04	8.71	5.36	4.50	12.58	72.78	4.78
Town "	5.39	4.22	9.82	77.06	3.51	3.74	4.25	9.30	73.29	9.42	4.94	4.23	9.68	76.02	5.13
Village "	6.52	4.90	11.39	74.28	2.91	8.05	4.60	5.90	75.87	5.58	6.65	4.87	10.93	74.42	3.13
All "	7.88	5.53	12.72	70.41	3.46	5.37	5.29	11.69	69.71	7.94	7.45	5.49	12.55	70.29	4.22

Note.—Legal number of teaching days, 198.

TABLE 3—ADMISSIONS, TRANSFERS, RETIREMENTS, EXEMPTIONS DURING THE SCHOOL YEAR, 1937-38

	Public Schools			Separate Schools			Both
	Rural	Urban	Total	Rural	Urban	Total	
Admissions: Beginners	23,302	31,141	54,443	3,037	8,533	11,570	66,013
From outside the Province	2,130	3,043	5,173	232	600	832	6,005
Totals	25,432	34,184	59,616	3,269	9,133	12,402	72,018
Transfers: (a) To another Section or Municipality	17,620	15,962	33,582	1,422	2,891	4,313	37,895
(b) To Special Industrial, Craft School, or Auxiliary Class	253	1,163	1.416	23	255	278	1,694
(c) To another Province	743	1,847	2,590	130	378	508	3,098
Totals	18,616	18,972	37,588	1,575	3,524	5,099	42,687
Retirements: (a) On reaching 14th birthday from:							
Grades I and II	48	3	51	20	1	21	72
Grades III and IV	127	12	139	61	8	69	208
Grades V and VI	545	56	601	227	44	271	872
Grades VII and VIII	1,409	135	1,544	251	60	311	1,855
Grades IX and X	377	11	388	57	11	68	456
(b) Between 14th and 16th birthday from:							
Grades I and II	39	17	56	12	6	18	74
Grades III and IV	60	73	133	16	44	60	193
Grades V and VI	380	464	844	73	264	337	1,181
Grades VII and VIII	1,510	1,219	2,729	180	437	617	3,346
Grades IX and X	559	181	740	70	164	234	974
(c) By death	173	205	378	18	58	76	454
By disability	491	562	1,053	113	227	340	1,393
Totals	5,718	2,938	8,656	1,098	1,324	2,422	11,078
Exemptions: Pupils who attended no school during the year owing to:							
Private Tuition	40	89	129	5	32	37	166
Taking Departmental Correspondence Course	299	28	327	6	....	6	333
Mental Disability	199	128	327	22	40	62	389
Physical Disability:					5	9	39
(a) Blind	22	8	30	4			34
(b) Deaf	22	8	30	3	1	4	
(c) Crippled	207	94	301	30	50	80	381
Distance from School	202	1	203	50	1	51	254
Other Reasons	192	61	253	89	37	126	379
Totals	1,183	417	1,600	209	166	375	1,975

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 4—CLASSIFICATION OF RURAL SCHOOLS BY TEACHERS AND ATTENDANCE, SCHOOL YEAR 1937-38

Teachers	PUBLIC														SEPARATE							Grand Total
	Counties							Districts														
	1	2	3	4	5	6 or more	Total	1	2	3	4	5	6 or more	Total	1	2	4	3	5	6 or more	Total	
Average Daily Attendance																						
1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
2	3	....	....	....	....	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3
3	16	....	....	....	....	....	16	3	....	....	....	....	....	3	3	....	....	....	....	....	3	22
4	30	....	....	....	....	....	30	5	....	....	....	....	....	5	2	....	....	....	....	....	2	37
5	51	....	....	....	....	....	51	15	....	....	....	....	....	15	....	....	....	....	....	....	....	66
6 – 10	621	....	....	....	....	....	621	153	....	....	....	....	....	153	24	....	....	....	....	....	24	798
11 – 15	1,021	....	....	....	....	....	1,021	196	....	....	....	....	....	196	54	1	....	....	....	....	55	1,272
16 – 20	1,010	....	....	....	....	....	1,010	166	4	....	....	....	....	170	75	2	....	....	....	....	77	1,257
21 – 25	659	4	....	....	....	....	663	98	2	....	....	....	....	100	81	2	....	....	....	....	83	846
26 – 30	410	24	....	....	....	....	434	79	3	....	....	....	....	82	49	....	....	....	....	....	49	565
31 – 35	214	30	....	....	....	....	244	46	7	....	....	....	....	53	32	3	....	....	....	....	35	332
36 – 40	87	42	....	....	....	....	129	14	4	....	....	....	....	18	19	2	....	....	....	....	21	168
41 – 45	39	60	....	....	....	....	99	10	9	....	....	....	....	19	9	11	....	....	....	....	20	138
46 – 50	13	47	1	....	....	....	61	1	14	1	....	....	....	16	2	8	....	....	....	....	10	87
51 – 55	2	61	1	....	....	....	64	....	6	....	....	....	....	6	....	7	2	....	....	....	9	79
56 – 60	2	37	3	1	....	....	43	....	5	3	....	....	....	8	....	8	....	....	....	....	8	59
61 – 65	....	26	1	....	....	....	27	....	5	2	....	....	....	7	....	9	4	....	....	....	13	47
66 – 70	....	31	2	....	....	....	33	....	4	2	....	....	....	6	....	5	2	....	....	....	7	46
71 – 75	....	9	6	....	....	....	15	....	4	1	....	....	....	5	....	2	4	2	1	....	9	29
76 – 100	....	14	34	5	....	....	53	....	4	6	2	....	....	12	....	4	15	9	2	....	30	95
101 – 125	....	....	19	11	1	....	31	....	....	2	4	1	....	7	....	....	3	11	2	....	16	54
126 – 150	....	....	1	11	....	....	12	....	....	....	1	....	....	1	....	....	....	2	....	1	3	16
151 – 200	....	....	1	5	10	5	21	....	....	....	3	2	3	8	....	....	....	....	3	2	5	34
201 – 300	....	....	....	1	....	19	20	....	....	....	....	....	5	5	....	....	....	....	....	5	5	30
Over 300	....	....	....	....	....	32	32	....	....	....	....	....	4	4	....	....	....	....	....	5	5	41
Totals	4,179	385	69	34	11	56	4,734	786	71	17	10	3	12	899	350	64	30	24	8	13	489	6,122

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 5—FIFTH CLASSES (GRADES IX AND X) 1937-38

(A) Public Schools of the County Inspectorates	No. of Schools Conducting Fifth Class Work	Fifth Class Enrolment in These Schools	Number of Qualifying Fifth Classes	Enrolment in Qualifying Fifth Classes	Average Per Class		Grading			Legislative Grant to Qualifying Classes
					Enrolment	Daily Attendance	A	B	C	
Brant and Norfolk (in part)	6	18	2	13	6.5	5.8	1	1	....	$215.28
Bruce East, Grey (in part), Huron (in part)	30	52	9	26	2.8	2.7	....	2	7	638.37
Bruce West	29	52	4	12	3.0	2.8	....	....	4	253.45
Carleton	9	26	3	17	5.7	4.2	1	....	2	332.00
Dundas and Grenville (in part)	5	17	1	10	10.0	7.5	....	1	....	89.99
Dufferin and Peel (in part)	25	85	14	71	5.0	4.3	3	1	10	1,039.00
Elgin East and City of St. Thomas	5	21	2	13	6.5	4.9	1	1	....	234.91
Essex, No. 1	10	220	7	217	31.0	25.9	4	3	....	979.17
Essex, No. 2, and Kent (in part)	4	9	2	6	3.0	2.3	....	....	2	121.27
Frontenac North & Addington (in part)	25	86	4	34	8.5	7.5	3	1	....	429.16
Frontenac South, No. 1, and Lennox (in part)	18	42	2	24	12.0	10.5	1	1	....	253.78
Frontenac South, No. 2, and City of Kingston	15	53	3	27	9.0	8.2	1	....	2	334.59
Glengarry (in part) and Prescott (in part)	11	29	3	15	5.0	4.1	....	2	1	270.64
Grey East	27	46	8	28	3.5	3.0	....	1	7	550.75
Grey North and Bruce North	16	34	1	12	12.0	9.8	....	1	....	117.87
Grey South	15	48	8	48	3.2	2.4	2	....	6	673.26
Haldimand (in part) and Wentworth (in part)	5	16	4	14	3.2	2.8	....	3	1	333.46
Halton	5	9	1	4	4.0	3.4	....	1	....	128.95
Hastings Centre	15	27	1	5	5.0	4.0	....	1	....	112.32
Hastings North and Renfrew (in part)	15	32	1	10	10.0	8.4	....	1	....	87.24
Hastings South	9	15	....	....	....	....	....	....	....	....
Huron East	25	42	4	16	4.0	3.5	....	....	4	260.37
Huron West	36	102	9	62	6.7	6.1	5	4	....	1,074.20
Kent, No. 2, and Elgin West	12	36	6	24	4.0	3.4	3	2	1	604.42
Kent, No. 1	11	27	4	16	4.0	3.4	....	4	....	414.60
Lambton, No. 2	17	54	5	37	7.4	6.4	1	1	3	459.05
Lambton, No. 1	10	22	2	11	5.5	4.3	1	1	....	373.67
Lanark (in part)	20	30	2	10	5.0	3.2	....	1	1	78.94
Leeds and Grenville, No. 1	16	36	2	18	9.0	8.0	2	....	....	360.80
Leeds and Grenville, No. 2	13	39	1	16	16.0	14.1	1	....	....	175.20
Leeds and Grenville, No. 3, and Lanark (in part)	16	32	2	5	2.5	2.3	....	....	2	109.40
Lennox and Hastings South (in part)	17	30	3	11	3.7	2.8	....	1	2	262.89
Lincoln (in part)	5	92	4	91	22.8	18.7	3	1	....	560.45
Middlesex East and Elgin (in part)	12	47	4	35	8.8	7.6	2	2	....	442.56
Middlesex West	5	11	1	4	4.0	3.7	1	....	....	149.35
Norfolk (in part)	21	44	4	24	6.0	4.5	....	4	....	347.44
Northumberland and Durham, No. 1	10	73	7	69	9.9	8.9	3	1	3	820.60
Northumberland and Durham, No. 2	21	60	13	49	3.8	3.2	....	1	12	688.61
Northumberland and Durham, No. 3, and Hastings (in part)	6	17	3	12	4.0	3.0	....	....	3	189.95
Ontario North and York (in part)	11	52	8	48	6.0	4.9	1	5	2	720.78
Ontario South	2	12	2	12	6.0	5.4	....	2	....	222.30
Oxford North and City of Woodstock	10	34	4	28	7.0	6.3	1	3	....	454.28
Oxford South and Norfolk (in part)	5	18	4	17	4.3	3.1	3	1	....	463.52
Perth North and Wellington (in part)	20	48	7	30	4.5	3.6	....	6	1	626.90
Perth South	4	7	1	4	4.0	3.2	....	....	1	97.75
Peterborough East	28	30	8	21	2.6	2.1	....	2	6	515.43
Peterborough West and Victoria East	17	28	3	17	5.7	4.8	....	3	....	251.38
Prescott and Russell, No. 1, and Carleton (in part)	13	48	5	37	7.4	6.7	3	2	....	567.85
Prescott and Russell, No. 3	1	15	1	15	15.0	13.0	1	....	....	173.11
Prince Edward	16	36	4	16	4.0	3.2	1	1	2	366.15
Renfrew North	18	60	5	32	6.4	5.4	1	1	3	610.30
Renfrew South	22	32	1	3	3.0	2.8	....	....	1	74.54
Simcoe East	14	99	6	91	15.2	12.2	3	3	....	823.38
Simcoe Centre	18	57	10	45	4.5	3.9	3	3	4	795.55
Simcoe South, York (in part) and Peel (in part)	16	36	6	22	3.7	3.0	....	1	5	412.74
Stormont	6	28	2	24	12.0	11.1	2	....	....	207.68
Victoria West	24	74	5	35	7.0	5.6	5	....	....	764.55
Waterloo, No. 1	27	146	10	47	4.7	3.8	....	6	4	854.06
Waterloo, No. 2	4	76	2	72	36.0	33.9	2	....	....	353.08
Welland (in part), Lincoln (in part) and Haldimand (in part)	4	8	1	4	4.0	3.6	....	....	1	80.80
Wellington North	16	33	3	16	5.3	3.8	....	2	1	271.94
Wellington South and City of Guelph	19	56	5	33	6.6	5.7	....	3	2	383.59
Wentworth	9	51	5	46	9.2	7.5	1	4	....	548.12

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 5—FIFTH CLASSES (GRADES IX AND X), 1937-38

(A) Public Schools of the County Inspectorates	No. of Schools Conducting Fifth Class Work	Fifth Class Enrolment in These Schools	Number of Qualifying Fifth Classes	Enrolment in Qualifying Fifth Classes	Average Per Class		Grading			Legislative Grant to Qualifying Classes
					Enrolment	Daily Attendance	A	B	C	
York, No. 1	4	12	2	9	4.5	3.0	1	1	....	$274.27
York, No. 2	1	4	1	4	4.0	2.8	....	....	1	29.00
York, No. 6	1	162	4	162	40.5	27.0	4	....	....	215.00
Totals and Averages, (A)	902	2,993	271	2,006	7.4	6.2	71	93	107	$25,726.01
(B) Public Schools of the District Inspectorates										
Division No. I	15	52	10	46	4.6	3.7	2	5	3	$2,196.60
" " II	42	116	13	77	5.9	5.0	3	3	7	2,675.50
" " III	15	28	6	17	2.8	2.5	....	....	6	758.00
" " IV	21	202	6	37	6.2	5.1	2	1	3	1,276.50
" " V	20	50	4	18	4.5	3.1	....	3	1	724.00
" " VI	17	103	14	99	7.1	5.9	5	3	6	3,157.50
" " VII	30	84	11	53	4.8	3.6	1	2	8	2,000.98
" " VIII	28	83	11	52	4.8	4.3	....	2	9	1,686.06
" " IX	19	52	8	39	4.8	3.8	1	1	6	1,211.48
" " X	28	85	7	50	7.1	5.6	1	4	2	1,464.50
" " XI	18	49	8	37	4.6	3.6	2	3	3	1,765.28
" " XII(1)	27	65	3	16	5.3	4.8	....	3	....	561.76
" " XII(3)	2	6	2	6	3.0	2.8	....	....	2	230.84
" " XIII	35	109	6	57	9.5	7.7	1	5	....	1,598.08
" " XIV	36	103	6	51	8.5	6.2	2	4	....	1,682.46
" " XV	32	88	18	85	4.7	3.9	1	2	15	2,967.00
" " XVI	29	59	13	54	4.1	3.8	1	4	8	1,723.84
Totals and Averages (B)	414	1,334	146	794	5.4	4.4	22	45	79	$27,680.38
(C) Public Schools of the City Inspectorates										
Kitchener	2	355	.....	.....	......	......	....	....	....	....
Toronto	11	1,490	.....	.....	......	......	....	....	....	....
Windsor	1	286	.....	.....	......	......	....	....	....	....
Totals and Averages (C)	14	2,131	.....	.....	......	......	....	....	....	....
(D) Roman Catholic Separate School Inspectorates										
Division No. I	7	84	4	20	5.0	3.3	1	1	2	$855.64
" " II	10	113	6	50	8.3	7.3	3	1	2	1,338.06
" " III	8	21	3	14	4.6	3.5	1	2	....	692.54
" " IV	11	89	9	83	9.2	8.1	4	3	2	1,580.96
" " V	7	23	4	20	5.0	4.1	3	....	1	747.48
" " VI	10	481	3	54	18.0	15.5	2	1	....	460.92
" " VII	6	122	6	122	20.3	17.3	6	....	....	798.46
" " VIII	7	89	6	67	11.2	10.0	5	1	....	819.63
" " IX	18	390	10	120	12.0	9.1	7	3	....	1,521.70
" " X	13	344	6	55	9.2	7.9	4	2	....	824.99
" " XI	6	428	1	40	40.0	36.6	1	....	....	137.50
" " XII	12	191	5	30	6.0	5.0	1	3	1	549.07
" " XIII and XIV	2	411	.....	.....	......	......	....	....	....	....
" " XV	12	301	8	147	18.4	15.5	5	1	2	1,063.52
" " XVI	24	219	15	121	8.1	7.4	5	2	8	1,696.63
" " XVII	13	486	.....	.....	......	......	....	....	....	....
" " XVIII	4	430	.....	.....	......	......	....	....	....	....
" " XIX	1	8	1	8	8.0	4.6	....	1	....	96.97
" " XX	7	88	7	88	12.6	11.0	7	....	....	985.60
" " XXI	7	74	7	74	10.2	9.3	6	1	....	895.32
" " XXII	6	64	5	42	8.4	7.6	5	....	....	612.51
Totals and Averages (D)	191	4,456	106	1,155	10.9	9.5	66	22	18	$15,677 20
Grand Totals and Averages	1,521	10,914	523	3,955	7.6	6.4	159	160	204	$69,083.59
Increases for the year	.....	.....	.....	.....	.6	.4	....	....	....	....
Decreases for the year	194	707	57	233	......	......	2	10	45	$1,283.11

Legislative grants for equipment only, to schools whose Fifth Classes have qualified in past years, but not this year, $1,773.90

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 6—DISTRIBUTION OF TEACHERS* AND CERTIFICATES, 1937-38

(A) RURAL

Rural Schools	TEACHERS						CERTIFICATES																										University Graduates	
	Public			Separate			General											Special																
							First Class		Second Class		Third Class		District		Temporary		P. U.	Kindergarten			Manual Training		Home Economics		Auxiliary Class		Art		Music†		Physical Training			
																		Director	Assistant and Primary															
	T.	M.	F.	T.	M.	F.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	S.	P.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.
In Counties																																		
Addington	30	6	24	2		2	17	1	13	1																							1	
Brant	80	16	64				47		32										1															
Bruce	168	38	130	15	1	14	110	5	58	10																							1	
Carleton	165	39	126	43	3	40	91	6	74	31		6																						
Dufferin	91	12	79				51		40																									
Dundas	81	29	52	1		1	41		40	1																							3	
Durham	101	33	68				65		36																								2	
Elgin	125	27	98				79		46																								2	
Essex	149	23	126	54	1	53	79	13	69	40	1					1																	8	
Frontenac	151	38	113	10	2	8	70	6	80	4			1																				1	
Glengarry	78	16	62	26	3	23	28	9	50	10		6					1																1	1
Grenville	73	12	61				38		35																								2	
Grey	225	50	175	8	1	7	144	6	81	2																								
Haldimand	81	13	68				58		23																									
Haliburton	60	24	36				34		26																								1	
Halton	69	7	62				40		29																								1	
Hastings	199	42	157	7	1	6	118	1	80	6	1																						2	
Huron	201	48	153	9		9	145	4	56	5																								
Kent	158	25	133	14	4	10	88	7	70	7																							2	1
Lambton	179	36	143	2		2	111	1	68	1																								
Lanark	126	17	109	3		3	74		52	3																								
Leeds	146	19	127	2		2	57		89	2																							2	
Lennox	87	14	73	1		1	46	1	41																									
Lincoln	98	25	73				60		38																								1	
Middlesex	208	43	165	5		5	127	3	81	2																								
Norfolk	111	33	78	3		3	67	1	44	2																								
Northumberland	115	22	93	5		5	67	2	48	3																								
Ontario	149	44	105	2	1	1	85	1	64	1																							2	
Oxford	131	27	104				93		38																									
Peel	106	28	78	1		1	58	1	48																									
Perth	119	20	99	17		17	86	10	33	7																								
Peterborough	110	25	85	5	1	4	77	1	32	4	1																							

---

*Regular teachers.

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 6—DISTRIBUTION OF TEACHERS AND CERTIFICATES, 1937-1938

(A) RURAL (Continued)

Rural Schools	TEACHERS						CERTIFICATES																										University Graduates	
	Public			Separate			General											Special																
							First Class		Second Class		Third Class		District		Temporary		P. U.	Kindergarten Director	Kindergarten Assistant and Primary		Manual Training		Home Economics		Auxiliary Class		Art		Music†		Physical Training			
	T.	M.	F.	T.	M.	F.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	S.	P.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.
Prescott	55	2	53	80	13	67	25	9	24	46	5	21	...	...	1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Prince Edward	74	24	50	...	...	...	48	...	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Renfrew	173	29	144	28	2	26	82	13	90	15	1	20	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1
Russell	34	11	23	76	13	63	21	3	13	44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Simcoe	244	52	192	9	1	8	132	...	110	9	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stormont	90	14	76	17	1	16	46	5	44	11	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
Victoria	112	29	83	3	1	2	68	3	44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waterloo	109	33	76	14	...	14	75	5	34	8	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Welland	160	40	120	...	...	...	97	...	55	...	...	...	...	...	...	...	...	...	5	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...
Wellington	154	32	122	7	...	7	104	2	50	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
Wentworth	110	22	88	3	...	3	67	2	43	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	1
York	834	229	605	51	2	49	382	...	429	9	...	41	...	...	...	1	...	2	9	...	3	...	4	...	5	...	...	...	...	...	...	...	11	1
Totals	6,119	1,368	4,751	523	51	472	3,498	121	2,576	290	9	95	1	...	3	15	2	2	15	...	3	...	4	...	6	...	...	...	2	...	...	...	57	5
In Districts																																		
Algoma	105	35	70	3	...	3	68	2	37	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	1
Cochrane	118	44	74	88	23	65	72	5	43	42	2	30	...	1	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2
Kenora	40	20	20	1	...	1	30	1	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
Manitoulin	47	19	28	2	1	1	13	2	34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Muskoka	104	31	73	2	2	...	59	1	45	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nipissing	74	14	60	57	10	47	30	3	34	38	8	13	...	...	2	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parry Sound	141	50	91	1	...	1	74	..	67	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Rainy River	74	25	49	3	1	2	43	2	31	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sudbury	144	56	88	66	23	43	55	12	78	39	8	10	...	...	3	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...
Timiskaming	135	38	97	47	8	39	78	10	56	30	1	3	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thunder Bay	128	47	81	1	...	1	100	1	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	1,110	379	731	271	68	203	622	39	463	152	19	57	...	1	5	20	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	12	3
Totals, Rural	7,229	1,747	5,482	794	119	675	4,120	160	3,039	442	28	152	1	1	8	35	4	2	16	...	3	...	4	...	6	...	...	...	2	...	...	...	69	8

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 6—DISTRIBUTION OF TEACHERS AND CERTIFICATES, 1937-1938

(B) URBAN

Urban Schools	TEACHERS						CERTIFICATES																											University Graduates	
							General											Special																
	Public			Separate			First Class		Second Class		Third Class		District		Temporary		P. U.	Kindergarten			Manual Training		Home Economics		Auxiliary Class		Art		Music†		Physical Training			
																		Director	Assistant and Primary															
	T.	M.	F.	T.	M.	F.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	S.	P.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.
CITIES *In Counties*																																		
Belleville	48	13	35	13	1	12	25	6	22	7	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Brantford	105	16	89	18	...	18	45	3	45	14	...	...	...	...	...	...	1	...	9	...	1	...	1	...	3	...	...	...	1	...	...	...	3	...
Chatham	59	11	48	14	...	14	19	2	30	12	...	...	...	...	...	...	...	2	3	...	1	...	1	...	2	...	...	...	1	...	...	...	2	...
Galt	47	11	36	6	...	6	5	1	34	5	...	...	...	...	...	...	...	...	6	...	...	...	...	...	1	...	...	...	1	...	...	...	2	...
Guelph	63	13	50	22	...	22	25	4	26	17	...	...	...	...	...	...	...	...	5	...	2	...	1	1	3	...	...	...	1	...	...	...	...	...
Hamilton	548	88	460	132	12	120	322	44	155	70	...	...	...	...	...	...	9	33	6	...	7	2	7	...	13	5	...	...	2	1	3	1	76	10
Kingston	70	10	60	25	1	24	27	8	34	16	...	...	...	...	...	...	...	...	6	...	1	...	1	...	...	...	...	...	1	1	...	...	12	1
Kitchener	114	26	88	50	6	44	46	22	37	22	...	...	...	...	...	...	1	...	16	3	1	3	...	...	4	1	1	1	2	1	2	1	...	...
London	253	59	194	48	4	44	142	23	57	22	...	...	...	...	...	...	1	14	12	...	5	...	5	1	16	...	...	...	1	1	1	...	28	...
Niagara Falls	66	11	55	11	...	11	26	1	35	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	1	...	1	...	1	...
Oshawa	86	16	70	11	1	10	29	4	51	7	...	...	...	...	...	...	...	...	4	...	...	...	...	...	1	...	...	...	1	...	...	...	7	...
Ottawa	315	79	236	348	80	268	177	93	90	207	...	16	...	1	..	26	...	...	14	...	12	1	13	3	3	1	1		3	...	2	...	67	9
Owen Sound	56	12	44	4	...	4	20	2	22	1	...	...	...	...	...	...	1	4	5	...	1	...	1	...	2	...	...	...	1	...	...	...	...	...
Peterborough	80	16	64	37	...	37	34	15	35	21	...	...	...	...	...	...	1	...	6	...	1	...	1	...	1	...	1	...	1	...	...	...	5	...
St. Catharines	93	19	74	21	...	21	39	3	38	16	...	...	...	...	...	...	2	...	8	...	1	...	1	...	5	...	...	...	1	...	...	...	...	...
St. Thomas	55	15	40	7	...	7	34	1	19	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
Sarnia	66	16	50	15	...	15	27	3	30	11	...	...	...	...	...	...	1	...	2	...	2	...	2	...	3	...	...	...	...	...	...	...	3	1
Stratford	65	15	50	13	...	13	21	2	35	10	...	...	...	...	...	...	1	...	4	...	2	...	2	...	...	...	...	...	1	...	...	...	...	...
Toronto**	2,114	542	1,572	311	28	283	985	59	764	235	...	2	...	...	...	...	3	98	64	2	53	..	50	..	82	10	..	...	5	...	3	...	248	8
Welland	51	10	41	...	...	...	20	...	26	...	...	...	...	...	...	...	...	1	3	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Windsor	311	73	238	178	14	164	131	37	137	136	...	4	...	...	...	...	1	2	27	...	3	..	3	..	7	...	...	...	1	...	...	...	25	5
Woodstock	41	10	31	4	...	4	18	3	10	1	...	...	...	...	...	...	...	...	8	...	1	..	1	..	2	...	...	...	1	...	...	...	...	...
Totals	4,706	1,081	3,625	1,288	147	1,141	2,217	336	1,732	846	...	22	...	1	..	26	22	154	209	2	96	4	93	5	154	17	3	1	26	4	12	2	480	34

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 6—DISTRIBUTION OF TEACHERS‡ AND CERTIFICATES, 1937-1938

(B) URBAN (Continued)

Urban Schools	TEACHERS						CERTIFICATES																												
							General											Special															University Graduates	
	Public			Separate			First Class		Second Class		Third Class		District		Temporary		P. U.	Kindergarten			Manual Training		Home Economics		Auxiliary Class		Art		Music†		Physical Training			
																		Director	Assistant and Primary															
	T.	M.	F.	T.	M.	F.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	S.	P.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.	P.	S.
In Districts																																		
Fort William	97	24	73	28	....	28	50	6	26	22	...	....	...	...	..	...	....	.....	16	...	....	..	....	..	4	...	..	..	1	...	...	...	3	...
North Bay	46	10	36	36	1	35	26	8	19	27	...	....	...	...	..	...	1	.....	1	...	....	..	....	..	....	...	..	..	...	...	...	...	....	...
Port Arthur	72	16	56	18	....	18	51	5	7	12	...	....	...	...	..	...	1	.....	6	...	....	..	....	..	2	...	2	..	4	...	...	...	7	1
Sault Ste. Marie	79	17	62	33	....	33	26	9	40	22	...	2	...	...	..	...	....	.....	10	...	....	..	....	..	3	...	..	..	...	...	...	...	....	...
Sudbury	45	7	38	56	5	51	20	14	24	39	...	2	...	...	..	...	1	.....	....	...	....	..	....	..	1	...	..	..	...	...	...	...	....	2
Totals	339	74	265	171	6	165	173	42	116	122	...	4	...	...	..	...	3	.....	33	...	....	..	....	..	10	...	2	..	5	...	...	...	10	3
Totals, Cities	5,045	1,155	3,890	1,459	143	1,316	2,390	378	1,848	968	...	26	...	1	..	26	25	154	242	2	·96	4	93	5	164	17	5	1	31	4	12	2	490	37
Towns	1,624	365	1,259	639	49	590	630	170	889	435	1	10	2	...	..	6	17	7	66	...	4	..	3	1	4	...	..	..	18	3	...	...	21	14
Villages	642	192	450	61	3	58	276	14	350	44	...	....	...	...	..	1	*3	.....	8	...	....	..	....	..	....	...	..	..	6	...	...	...	5	1
Totals, Urban	7,311	1,712	5,599	2,159	195	1,964	3,296	562	3,087	1,447	1	36	2	1	..	33	45	161	316	2	100	4	96	6	168	17	5	1	55	7	12	2	516	52
Rural	7,229	1,747	5,482	794	119	675	4,120	160	3,039	442	28	152	1	1	8	35	4	2	16	...	3	..	4	..	6	...	..	..	2	...	...	...	69	8
Grand Totals	14,540	3,459	11,081	2,953	314	2,639	7,416	722	6,126	1,889	29	188	3	2	8	68	49	163	332	2	103	4	100	6	174	17	5	1	57	7	12	2	585	60
Increases for year	......	135	......	12	....	14	600	61	.....	.....	...	....	...	...	13		....	....		1	....	4	7	..	17	...	2	1	29	...	1	...	86	10
Decreases for year	45	.....	190	.....	2	.....	.....	....	657	38	15	17	1	...	......		7	23		...	3	..	....	1	....	1	..	..	...	...	...	...	....	...

P.U.—Permanent Ungraded. T.—Total M.—Male F.—Female P.—Public S.—Separate. †Itinerant Music teachers are not included.

‡Includes Supervisors in case of Urban schools. **In addition to these there are 3 Teachers of Manual Arts, 2 of Household Arts, 5 of Lip Reading.

THE PUBLIC AND

TABLE 7—HIGH SCHOOL ENTRANCE EXAM-

	(A) Public Schools of the City Inspectorates	May Enrolment, Grades 1–8 (inclus.)	High School Entrance Candidates	Recommended Candidates		Writing Candidates		
				Number	Per cent.	Number	Number successful	Per cent. successful
1	Brantford	3,338	361	329	91.14	32	32	100.00
2	Chatham	1,753	193	128	66.32	65	40	61.54
3	Hamilton	18,268	1,804	1,513	83.87	291	190	65.29
4	Kitchener	3,191	405	260	64.20	145	49	33.79
5	London	7,453	1,042	674	64.68	368	263	71.47
6	Ottawa	8,407	1,236	782	63.27	454	222	48.90
7	Peterborough	2,543	297	196	65.99	101	66	65.35
8	St. Catharines	3,033	309	250	80.90	59	56	94.92
9	Sarnia	2,362	261	179	68.58	82	56	68.29
10	Toronto	68,762	7,980	6,028	75.53	1,952	796	40.78
11	Welland	1,717	192	100	52.08	92	66	71.74
12	Windsor	10,650	1,337	934	69.86	403	262	65.01
	Totals and Averages	131,477	15,417	11,373	73.76	4,044	2,098	51.88
	(B) Public Schools of the County Inspectorates							
1	Brant, and Norfolk (in part)	3,277	344	190	55.03	154	111	72.08
2	Bruce East, Grey (in part), Huron (in part)	2,255	242	81	33.47	161	125	77.64
3	Bruce West	2,498	298	146	48.99	152	94	61.84
4	Carleton	4,181	500	234	46.80	266	175	65.79
5	Dufferin (in part) and Peel (in part)	2,034	252	132	52.38	120	68	56.66
6	Dundas and Grenville (in part)	2,316	291	101	34.71	190	130	68.42
7	Elgin East, and City of St. Thomas	4,038	461	353	76.57	108	50	46.30
8	Essex No. 1	4,070	464	99	21.34	365	307	84.10
9	Essex No. 2, and Kent (in part)	4,285	387	170	43.93	217	168	77.42
10	Frontenac North, and Addington (in part)	1,474	141	45	31.91	96	57	59.37
11	Frontenac South, No. 1, and Lennox (in part)	2,158	234	87	37.18	147	95	64.62
12	Frontenac South, No. 2, and City of Kingston	2,989	362	207	57.18	155	134	86.45
13	Glengarry (in part) and Prescott (in part)	2,097	202	75	37.13	127	80	62.99
14	Grey East	2,400	272	105	38.60	167	125	74.85
15	Grey North, and Bruce North	3,466	341	212	62.17	129	94	73.30
16	Grey South	2,827	285	125	43.86	160	130	81.25
17	Haldimand (in part) and Wentworth (in part)	,2562	303	123	40.59	180	143	79.44
18	Halton	3,481	391	202	51.66	189	134	70.89
19	Hastings Centre	2,320	154	58	37.66	96	70	72.95
20	Hastings North, Renfrew (in part) and City of Oshawa	4,875	536	228	42.54	308	225	73.05
21	Hastings South	4,127	421	288	68.41	133	89	66.92
22	Huron East	2,246	289	111	38.41	178	135	75.84
23	Huron West	2,859	310	165	53.23	145	104	71.72
24	Kent No. 1	4,263	421	192	45.61	229	124	54.15
25	Kent No. 2, and Elgin West	2,708	311	187	60.13	124	72	58.16
26	Lambton No. 1	2,814	335	54	16.12	281	183	65.14
27	Lambton No. 2	2,407	279	91	32.62	188	127	67.56
28	Lanark West	4,182	496	172	34.46	324	258	80.13
29	Leeds, and Grenville, No. 1	1,964	268	102	38.06	166	106	63.85
30	Leeds, and Grenville, No. 2	2,530	262	116	44.07	146	89	60.95
31	Leeds, and Grenville, No. 3 and Lanark (in part)	2,222	244	86	35.25	158	112	70.88
32	Lennox, and Hastings South (in part)	2,246	272	136	50.00	136	72	52.94
33	Lincoln (in part)	3,817	404	259	64.11	145	97	66.90
34	Middlesex East, and Elgin (in part)	3,110	335	152	45.37	183	131	71.58
35	Middlesex West	2,567	318	82	25.79	236	185	78.39
36	Norfolk (in part)	4,270	401	185	46.13	216	143	66.20
37	Northumberland, and Durham, No. 1	2,728	276	66	23.91	210	160	76.19
38	Northumberland, and Durham, No. 2	2,229	274	199	72.63	75	53	70.67
39	Northumberland, and Durham, No. 3, and Hastings (in part)	2,875	349	177	50.72	172	141	81.97
40	Ontario North, and York (in part)	2,706	291	78	26.80	213	160	75.11
41	Ontario South	2,931	366	183	50.00	183	137	74.86

SEPARATE SCHOOLS

INATION RESULTS BY INSPECTORATES, 1938

	Successful Candidates										
						Destination					
	Total Number Successful	Per cent. of Total Applicants	Per cent. of May Enrolment	Average Age		Secondary School		Grade IX Elem. School		Retired from School	
				Years	Mos.	Number	Per cent.	Number	Per cent.	Number	Per cent.
1	361	100.00	10.81	14	..	309	85.38	....	....	52	14.62
2	168	87.05	9.58	13	9	156	92.86	....	....	12	7.14
3	1,703	94.40	9.32	14	..	1,638	96.18	....	....	65	3.82
4	309	76.30	9.68	13	5	34	11.00	263	85.11	12	3.89
5	937	89.92	12.57	13	10	889	94.88	....	....	48	5.12
6	1,004	81.23	11.94	13	11	984	98.01	1	....	19	1.99
7	262	88.22	10.30	14	1	246	93.89	....	....	16	6.11
8	306	99.03	10.09	14	2	268	87.58	....	....	38	12.42
9	235	90.04	9.95	13	9	227	96.59	....	....	8	3.41
10	6,824	85.51	9.92	14	2	5,761	84.42	718	10.52	345	5.06
11	166	86.46	9.67	13	8	150	90.36	....	....	16	9.64
12	1,196	89.45	11.23	13	8	1,058	88.46	132	11.04	6	.50
	13,471	87.38	10.25	13	10	11,720	87.00	1,114	8.27	637	4.73
1	301	87.50	9.19	13	9	236	78.41	19	6.31	46	15.28
2	206	85.12	9.13	13	7	121	58.74	21	10.20	64	31.06
3	240	80.54	9.61	13	10	160	66.67	33	13.75	47	19.58
4	409	81.80	10.02	14	4	388	94.86	13	3.18	8	1.96
5	200	79.36	9.83	13	9	157	78.50	13	6.50	30	15.00
6	231	79.39	9.97	13	6	196	84.84	6	2.61	29	12.55
7	403	87.42	9.98	13	10	354	87.84	1	.25	48	11.91
8	406	87.50	9.97	13	11	265	65.27	102	25.12	39	9.61
9	338	87.34	7.89	13	11	227	67.16	6	1.78	105	31.06
10	102	72.34	6.92	13	9	37	36.27	49	48.03	16	15.70
11	182	77.77	8.43	13	3	120	65.93	16	8.80	46	25.27
12	341	94.19	11.41	13	11	296	86.80	17	4.98	28	8.22
13	155	76.73	7.39	13	8	97	62.58	25	16.13	33	21.29
14	230	84.56	9.22	13	9	160	69.56	49	21.30	21	9.14
15	306	89.74	8.83	14	3	238	77.78	9	2.94	59	19.28
16	255	89.47	9.02	13	7	152	59.61	25	9.80	78	30.59
17	266	87.79	10.38	13	7	186	69.92	8	3.01	72	27.07
18	336	85.93	9.66	14	..	267	79.46	1	.30	68	20.24
19	128	83.11	5.52	14	2	88	68.76	16	12.48	24	18.76
20	453	84.51	9.29	13	2	380	83.88	31	6.84	42	9.28
21	377	89.54	9.13	14	..	337	89.39	18	4.77	22	5.84
22	246	85.12	10.95	13	7	162	65.85	42	17.07	42	17.08
23	269	86.77	9.40	13	10	133	49.44	73	27.14	63	23.42
24	316	75.06	7.41	13	9	229	72.46	12	3.81	75	23.73
25	259	83.28	9.56	13	3	195	75.28	18	6.96	46	17.76
26	237	70.75	8.42	13	11	149	62.86	26	10.98	62	26.16
27	218	78.14	9.05	14	..	142	65.14	24	11.01	52	23.85
28	430	86.97	10.28	14	..	326	75.81	30	6.99	74	17.20
29	208	77.61	10.59	13	9	161	77.40	24	11.54	23	11.06
30	205	78.24	8.10	13	8	163	79.51	16	7.80	26	12.69
31	198	81.15	8.91	13	8	160	80.80	11	5.56	27	13.64
32	208	76.47	9.26	13	10	120	57.69	19	9.14	69	33.17
33	356	88.12	9.36	13	11	251	70.50	59	16.58	46	12.92
34	283	84.48	9.10	13	7	196	69.25	19	6.72	68	24.03
35	267	83.96	10.40	13	7	198	74.15	6	2.26	63	23.59
36	328	81.79	7.68	13	11	257	78.35	29	8.85	42	12.80
37	226	81.88	8.28	13	11			Data not	available		
38	252	91.97	11.30	15	..			Data not	available		
39	318	91.11	11.06	13	8	215	67.61	23	7.23	80	25.16
40	238	81.78	8.80	14	..	187	78.57	16	6.72	35	14.71
41	320	87.43	10.92	14	1	275	85.93	11	3.44	34	10.63

THE PUBLIC AND

TABLE 7—HIGH SCHOOL ENTRANCE EXAM-

	(B) Public Schools of the County Inspectorates	May Enrolment, Grades 1–8 (inclus.)	High School Entrance Candidates	Recommended Candidates		Writing Candidates		
				Number	Per cent.	Number	Number successful	Per cent. successful
42	Oxford North, and City of Woodstock	3,063	402	222	55.22	180	139	77.22
43	Oxford South, and Norfolk (in part)	3,730	421	277	55.80	144	74	51.38
44	Peel (in part) and York (in part)	4,609	486	243	50.00	243	204	83.95
45	Perth North, and Wellington (in part)	3,058	312	99	31.73	213	165	77.30
46	Perth South	3,367	448	221	49.33	227	186	81.93
47	Peterborough East	2,508	297	125	42.08	172	79	45.93
48	Peterborough West, and Victoria East	2,250	264	141	53.40	123	102	82.92
49	Prescott, and Russel, No. 1, and Carleton (in part)	1,267	124	30	24.19	94	75	79.78
50	Prescott, and Russell, No. 2	20	3	......	......	3	2	66.67
51	Prescott, and Russell, No. 3	581	31	8	25.81	23	17	73.91
52	Prescott, and Russell, No. 4	189	5	......	......	5	5	100.00
53	Prince Edward	2,039	211	138	65.40	73	34	46.57
54	Renfrew North	2,822	241	119	49.37	122	88	72.13
55	Renfrew South	2,878	255	41	16.08	214	171	79.90
56	Simcoe Centre	3,067	369	187	50.67	182	98	53.84
57	Simcoe East, and Muskoka (in part)	3,677	439	149	33.94	290	172	59.31
58	Simcoe North	963	67	34	50.75	33	19	57.57
59	Simcoe South, York (in part) and Peel (in part)	2,819	340	127	37.35	213	142	66.67
60	Simcoe West, Grey (in part) and Dufferin (in part)	2,540	256	110	42.97	146	114	78.08
61	Stormont	2,816	317	76	23.97	241	191	79.25
62	Victoria West	1,478	172	86	50.00	86	32	37.20
63	Waterloo, No. 1	3,640	336	191	56.84	145	113	77.93
64	Waterloo, No. 2	3,702	422	352	83.41	70	47	67.14
65	Welland East	4,561	563	264	46.89	299	233	77.92
66	Welland South	4,215	460	190	41.30	270	216	80.00
67	Welland (in part), Lincoln (in part) and Haldimand (in part)	3,389	371	152	40.97	219	134	61.18
68	Wellington North	2,885	295	64	21.69	231	182	78.79
69	Wellington South, and City of Guelph	3,779	461	267	57.92	194	144	74.22
70	Wentworth	4,043	404	199	49.25	205	127	61.95
71	York, No. 1	3,899	444	156	35.13	288	219	76.04
72	York, No. 2	5,257	614	318	51.79	296	227	76.68
73	York, No. 3	5,139	605	450	74.50	155	112	72.26
74	York, No. 4	5,226	621	453	72.94	168	105	62.50
75	York, No. 5	7,200	776	546	70.36	230	184	80.00
76	York, No. 6	6,143	712	289	40.59	423	323	76.35
	Totals and Averages	234,223	25,926	12,378	47.78	13,548	9,668	71.36
	(C) Public Schools of the District Inspectorates							
1	Division No. I	3,131	321	112	34.89	209	170	81.34
2	" " II	2,584	313	117	37.39	196	148	75.51
3	" " III	3,795	484	380	78.52	104	58	65.77
4	" " IV	3,869	460	307	66.74	153	39	25.49
5	" " V	3,954	463	349	75.37	114	26	22.80
6	" " VI	3,541	320	123	38.44	197	142	72.08
7	" " VII (Part 1)	3,978	441	277	62.81	164	120	73.18
8	" " VII (Part 2)	569	21	......	......	21	10	47.63
9	" " VIII	2,350	247	89	36.03	158	103	65.19
10	" " IX	4,723	458	280	61.13	178	125	70.22
11	" " X	4,679	420	206	49.04	214	146	68.22
12	" " XI	2,536	243	106	43.62	137	88	64.23
13	" " XII (Part 1)	3,203	302	138	45.69	164	131	79.85
14	" " XII (Part 2)	42	2	......	......	2	2	100.00
15	" " XII (Part 3)	625	23	......	......	23	8	34.78
16	" " XIII	2,230	230	81	35.22	149	111	74.43

SEPARATE SCHOOLS

INATION RESULTS BY INSPECTORATES, 1938

	Successful Candidates										
	Total Number Successful	Per cent. of Total Applicants	Per cent. of May Enrolment	Average Age		Destination					
						Secondary School		Grade IX Elem. School		Retired from School	
				Years	Mos.	Number	Per cent.	Number	Per cent.	Number	Per cent.
42	361	89.80	11.78	13	8	280	77.56	24	6.66	57	15.78
43	351	83.37	9.41	13	11	264	75.21	16	9.56	71	20.23
44	447	91.97	9.72	14	2	418	93.51	....	....	29	6.49
45	264	84.61	8.63	13	8	118	44.69	64	24.25	82	31.06
46	407	90.84	12.09	13	6	337	82.80	6	1.48	64	15.72
47	204	68.68	8.13	13	5	163	79.90	23	11.28	18	8.82
48	243	92.04	10.80	13	8	179	73.66	36	14.81	28	11.53
49	105	84.68	8.28	13	9	71	67.62	31	29.52	3	2.86
50	2	66.67	10.00	12	..	2	100.00	....	....	....	....
51	25	80.66	4.31	13	11	17	68.00	8	32.00	....	....
52	5	100.00	2.65	14	1	1	20.00	2	40.00	2	40.00
53	172	81.52	8.44	13	11	103	59.88	32	18.60	37	21.52
54	207	85.89	7.34	13	9	138	66.67	42	20.29	27	13.04
55	212	83.14	7.33	13	7	118	55.66	41	19.34	53	25.00
56	285	77.23	9.29	14	..	203	71.22	25	8.78	57	20.00
57	321	73.12	8.73	14	1	184	57.32	60	18.70	77	23.98
58	53	79.13	5.51	14	6	40	75.47	....	....	13	24.53
59	269	79.12	9.54	13	9	204	75.84	18	6.69	47	17.47
60	224	87.51	8.82	13	11	171	76.33	21	9.39	32	14.28
61	267	84.22	9.48	13	11	235	88.00	21	7.86	11	4.14
62	118	68.60	7.98	13	11	55	46.61	30	25.43	33	27.96
63	304	90.47	8.35	13	6	103	33.88	127	41.77	74	24.35
64	399	94.54	10.78	14	..	285	71.43	39	9.78	75	18.79
65	497	88.27	10.89	13	8	464	93.36	....	....	33	6.64
66	406	88.26	9.63	14	3	364	89.65	....	....	42	10.35
67	286	77.09	8.43	13	11	210	73.42	6	2.11	70	24.47
68	246	83.39	8.53	13	3	183	74.39	17	6.91	46	18.70
69	411	89.15	10.89	13	8	315	76.64	48	11.68	48	11.68
70	326	80.69	8.04	13	11	265	81.29	17	5.21	44	13.50
71	375	84.45	9.51	14	..	289	77.06	12	3.21	74	19.73
72	545	88.76	10.37	14	3	510	93.58	....	....	35	6.42
73	562	92.89	10.94	14	..	529	94.13	....	....	33	5.87
74	558	89.85	10.68	13	10	515	92.29	....	....	43	7.71
75	730	94.07	10.14	14	2	660	90.41	....	....	70	9.59
76	612	85.95	9.97	13	11	476	77.78	81	13.23	55	8.99
	22,046	85.04	9.41	13	11	16,450	76.27	1,783	8.26	3,335	15.47
1	282	87.85	9.01	13	5	216	76.40	49	17.37	17	6.23
2	265	84.66	10.26	13	9	157	59.24	86	32.45	22	8.31
3	438	90.49	11.54	14	1	368	84.01	32	7.31	38	8.68
4	346	75.22	8.95	14	..	166	47.97	134	38.72	46	13.31
5	375	80.99	9.49	13	11	311	82.93	38	10.13	26	6.94
6	265	82.81	7.48	14	1	169	63.77	74	27.92	22	8.31
7	397	90.02	9.98	13	4	242	60.95	56	14.11	99	24.94
8	10	47.62	1.76	13	9	5	50.00	5	50.00	....	....
9	192	77.73	8.18	14	..	93	48.44	59	30.73	40	20.83
10	405	88.42	8.58	13	7	354	87.40	21	5.18	30	7.42
11	352	83.80	7.53	14	2	315	89.49	24	6.82	13	3.69
12	194	79.83	7.65	14	2	127	65.46	49	25.26	18	9.28
13	269	89.07	8.40	13	4	191	71.00	52	19.33	26	9.67
14	2	100.00	4.74	15	..	1	50.00	....	....	1	50.00
15	8	34.78	1.28	14	6	....	....	4	50.00	4	50.00
16	192	83.48	8.61	14	..	70	36.46	72	37.51	50	.03

THE PUBLIC AND

TABLE 7—HIGH SCHOOL ENTRANCE EXAM-

(C) Public Schools of the District Inspectorates	May Enrolment, Grades 1–8 (inclus.)	High School Entrance Candidates	Recommended Candidates		Writing Candidates		
			Number	Per cent.	Number	Number successful	Per cent. successful
17 Division No. XIV	2,109	201	98	48.76	103	67	65.05
18 " " XV	2,209	248	127	51.20	121	90	74.38
19 " " XVI	1,892	182	38	20.87	144	102	70.84
Totals and Averages	52,019	5,379	2,828	52.57	2,551	1,686	66.09
(D) Roman Catholic Separate School Inspectorates							
1 Division No. I	4,178	408	321	78.68	87	43	49.43
2 " " II	4,221	276	141	51.07	135	88	65.19
3 " " III	3,868	125	51	40.80	74	36	48.65
4 " " IV	3,269	169	53	31.36	116	84	72.41
5 " " V	4,910	256	132	51.56	124	71	57.26
6 " " VI	5,980	607	401	66.06	206	154	74.76
7 " " VII	3,704	238	128	53.78	110	89	80.91
8 " " VIII	3,471	261	151	57.85	110	77	70.00
9 " " IX	3,651	425	227	53.41	198	168	84.85
10 " " X	5,107	549	373	67.94	176	90	51.14
11 " " XI	4,988	525	398	75.81	127	70	55.12
12 " " XII	4,155	442	241	54.52	201	149	74.13
13 " " XIII XIV	12,961	1,476	1,146	77.64	330	125	37.88
14 " " XV	3,890	395	179	45.32	216	178	82.41
15 " " XVI	3,955	414	213	51.45	201	166	82.59
16 " " XVII XVIII XIX	12,709	1,092	654	59.89	438	302	68.95
17 " " XX	3,132	224	63	28.13	161	106	65.84
18 " " XXI	3,910	109	31	28.44	78	62	79.49
19 " " XXII	3,531	194	44	22.68	150	90	60.00
Totals and Averages	95,590	8,185	4,947	60.44	3,238	2,148	66.33
Grand Totals and Averages	513,309	54,907	31,526	57.42	23,381	15,600	66.72
Increases for the year	3,484	....	1,274	2.45	....	....	1.22
Decreases for the year	....	125	....	....	1,399	632	....

SUMMARY

(This includes, in addition to the above, results of candidates from private sources.)

Enrolment Grade VIII on the last school day in May, 1938		57,548
Number of High School Entrance Candidates:		
Recommended by Principal on Group II	31,795	
Number taking written test on Group II	23,556	
		55,351
High School Entrance candidate percentage of 1938 Grade VIII Enrolment		96.18%

SEPARATE SCHOOLS

INATION RESULTS BY INSPECTORATES, 1938

	Successful Candidates										
						Destination					
	Total Number Successful	Per cent. of Total Applicants	Per cent. of May Enrolment	Average Age		Secondary School		Grade IX Elem. School		Retired from School	
				Years	Mos.	Number	Per cent.	Number	Per cent.	Number	Per cent.
17	165	82.09	7.85	14	..	80	48.48	67	40.61	18	10.91
18	217	87.50	9.82	14	4	129	59.44	51	23.50	37	17.06
19	140	76.93	7.35	13	9	59	42.14	48	34.29	33	23.57
	4,514	83.91	8.68	14	..	3,053	67.63	921	20.40	540	11.97
1	364	89.22	8.71	14	1	271	74.45	70	19.23	23	6.32
2	229	82.97	5.43	15	..	91	39.74	103	44.98	35	15.28
3	87	69.60	2.25	14	1	68	78.16	8	9.19	11	12.65
4	137	81.07	4.19	14	6	71	51.82	55	40.15	11	8.03
5	203	79.30	4.13	14	10	155	76.35	14	6.90	34	16.75
6	555	91.43	9.28	14	4	271	48.83	209	37.66	75	13.51
7	217	91.18	5.86	14	5	50	23.04	147	67.74	20	9.22
8	228	87.36	6.57	13	4	129	56.58	39	17.11	60	26.31
9	395	92.94	10.82	13	9	99	25.06	210	53.17	86	21.77
10	463	84.34	9.07	13	8	169	36.50	219	47.30	75	16.20
11	468	89.14	9.38	14	1	314	67.09	112	23.93	42	8.98
12	390	88.24	9.39	13	10	268	68.72	82	21.03	40	10.25
13	1,271	86.11	9.81	14	1	912	71.75	232	18.25	127	10.00
14	357	90.38	9.16	13	8	222	62.19	114	31.93	21	5.88
15	379	91.55	9.58	13	11	255	67.28	95	25.07	29	7.65
16	956	87.55	7.52	14	6	167	17.47	729	76.26	60	6.27
17	169	75.45	5.39	13	11	31	18.34	137	81.07	1	.59
18	93	85.32	2.38	14	3	35	37.63	48	51.61	10	11.76
19	134	69.07	3.79	14	1	79	58.96	37	27.61	18	13.43
	7,095	86.68	7.42	14	..	3,657	51.54	2,660	37.49	778	10.97
	47,126	85.83	9.18	13	11	34,880	74.77	6,478	13.89	5,290	11.34
	642	1.36	.06	......	......	1,608	1.42	293	.26	....	....
	....	....	....	..	1	....	....	....	....	616	1.68

Number of candidates successful on written test on Group II:

By Regulation 10—(1) and (2)	14,460
(3) and (4)	656
(5)	381
(6)	178
(7)	247
	15,922

Total Number of successful candidates..47,717

Percentage of candidates who were successful..86.21%

(66.63% by Principals' recommendation and 33.37% by passing written test.)

ACTIVITIES IN A HOME ECONOMICS CLASSROOM

Courtesy "The School".

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 8—SPECIAL SUBJECTS

AGRICULTURE, VOCAL MUSIC, ART, HOME ECONOMICS, AND MANUAL TRAINING, IN RURAL SCHOOLS FOR THE SCHOOL YEAR, 1937-38

Public School County Inspectorates	†No. of Rural Schools	Schools which qualified for a Special Legislative Grant* for the teaching of the following subjects									
		Number					Per cent				
		Agriculture	Vocal Music	Art	Home Economics	Manual Training	Agriculture	Vocal Music	Art	Home Economics	Manual Training
Brant and Norfolk (in part)	76	29	37	1	13	1	38.2	48.7	1.3	17.1	1.3
Bruce East, Grey (in part), Huron (in part)	80	67	63	....	20	3	83.7	78.8	......	25.0	3.8
Bruce West	82	62	63	....	4	......	75.6	76.8	......	4.9	......
Carleton	116	83	16	1	21	7	71.5	13.8	.9	18.1	6.3
Dufferin (in part), and Peel (in part)	92	63	65	....	12	1	68.5	70.6	......	13.1	1.9
Dundas, and Grenville (in part)	71	61	8	....	13	8	85.9	11.3	......	18.3	11.3
Elgin East, and City of St. Thomas	51	31	20	....	1	......	60.8	39.2	......	2.0	......
Essex, No. 1	66	41	12	3	2	......	62.2	18.2	4.5	3.0	......
Essex, No. 2, and Kent (in part)	69	47	37	....	1	1	68.1	53.6	......	1.4	1.4
Frontenac North, and Addington (in part)	76	56	23	....	6	2	73.6	30.3	......	7.9	1.6
Frontenac South, No. 1, and Lennox (in part)	81	26	41	....	1	......	32.1	50.6	......	1.2	......
Frontenac South, No. 2, and City of Kingston	36	16	20	....	2	......	44.4	55.6	......	5.6	......
Glengarry (in part), and Prescott (in part)	84	60	30	....	8	1	71.5	35.7	......	7.2	1.2
Grey East	94	60	63	....	12	......	63.9	67.0	......	12.8	......
Grey North, and Bruce North	56	46	41	....	11	2	82.2	73.2	......	19.7	3.6
Grey South	81	38	29	....	18	1	46.9	35.8	......	22.2	1.2
Haldimand (in part), and Wentworth (in part)	77	50	56	....	9	6	65.0	72.7	......	11.7	7.8
Halton	60	36	41	....	10	5	60.0	68.4	......	16.7	8.3
Hastings Centre	72	32	12	....	3	......	44.5	16.7	......	4.2	......
Hastings North, Renfrew (in part), and City of Oshawa	42	21	......	....	6	......	50.0	......	......	14.3	......
Hastings South	35	30	12	1	6	3	85.7	34.3	2.9	17.2	8.6
Huron East	78	55	45	1	3	......	70.5	57.7	1.3	3.9	......
Huron West,	89	67	71	....	2	2	75.3	79.8	......	2.2	2.2
Kent, No. 1	87	60	75	....	2	......	69.0	86.2	......	2.3	......
Kent, No. 2, and Elgin West	77	52	65	....	......	......	67.5	84.4	......	......	......
Lambton, No. 1	83	53	48	....	7	......	63.9	57.9	......	8.4	......
Lambton, No. 2	87	60	51	....	6	3	69.0	58.6	......	6.9	3.5
Lanark West	105	91	21	....	15	4	86.6	20.0	......	14.3	3.8
Leeds, and Grenville, No. 1	75	57	33	....	8	......	76.0	44.0	......	10.7	......
Leeds, and Grenville, No.2	69	52	21	....	20	......	75.4	30.4	......	29.0	......
Leeds, and Grenville, No. 3, and Lanark (in part)	96	74	10	....	13	2	77.1	10.4	......	13.5	2.1
Lennox, and Hastings South (in part)	78	55	20	....	5	......	70.5	25.6	......	6.4	......
Lincoln (in part)	44	34	32	3	14	9	77.2	72.7	6.8	31.8	20.4
Middlesex East, and Elgin (in part)	92	62	77	....	2	1	67.4	83.7	......	2.2	1.1
Middlesex West	96	79	35	....	3	......	82.4	36.4	......	3.1	......
Norfolk (in part)	75	43	41	....	......	2	57.4	54.7	......	......	2.7
Northumberland, and Durham, No. 1	63	56	62	....	11	1	88.9	98.4	......	17.5	1.6

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 8—SPECIAL SUBJECTS

AGRICULTURE, VOCAL MUSIC, ART, HOME ECONOMICS, AND MANUAL TRAINING, IN RURAL SCHOOLS FOR THE SCHOOL YEAR, 1937-38

Public School County Inspectorates	†No. of Rural Schools	Schools which qualified for a Special Legislative Grant* for the teaching of the following subjects									
		Number					Per cent.				
		Agriculture	Vocal Music	Art	Home Economics	Manual Training	Agriculture	Vocal Music	Art	Home Economics	Manual Training
Northumberland, and Durham, No. 2	77	47	66	....	8	......	61.1	85.7	......	10.4	......
Northumberland, and Durham, No. 3, and Hastings (in part)	78	70	67	....	18	1	89.7	85.9	......	23.1	1.3
Ontario North, and York (in part)	75	23	26	....	9	1	30.6	34.6	......	12.0	1.3
Ontario South	60	25	29	....	3	1	41.7	48.4	......	5.0	1.7
Oxford North, and City of Woodstock	58	48	54	....	19	9	82.7	93.1	......	32.8	15.5
Oxford South, and Norfolk (in part)	59	48	36	....	7	5	81.4	61.1	......	11.9	8.5
Peel (in part) and York (in part)	42	24	36	2	4	2	57.2	85.7	4.8	9.5	4.8
Perth North, and Wellington (in part)	85	77	70	....	3	3	90.6	82.4	......	3.5	3.5
Perth South	45	33	25	....	1	2	73.4	55.6	......	2.2	8.9
Peterborough East	73	48	47	....	18	......	65.8	64.4	......	24.7	......
Peterborough West, and Victoria East	58	47	29	....	6	......	81.0	50.0	......	10.3	......
Prescott, Russell, No. 1, and Carleton (in part)	49	34	14	....	7	3	69.4	28.6	......	6.1	14.3
Prescott, and Russell, No. 2	1	......	......	....	......	......	......	......	......	......	......
Prescott, and Russell, No. 3	8	......	......	....	......	......	......	......	......	......	......
Prescott, and Russell, No. 4	9	......	......	....	......	......	......	......	......	......	......
Prince Edward	71	24	9	....	8	7	33.8	12.7	......	11.3	9.9
Renfrew North	76	59	1	....	9	......	77.6	1.3	......	11.8	......
Renfrew South	83	55	......	....	2	......	66.3	......	......	2.4	......
Simcoe Centre	66	37	42	....	4	......	56.1	63.6	......	6.1	......
Simcoe East, and Muskoka (in part)	46	26	12	....	6	1	56.5	26.1	......	13.0	2.2
Simcoe North	6	......	......	....	......	......	......	......	......	......	......
Simcoe South, York (in part) and Peel (in part)	88	42	51	....	11	7	47.8	57.9	......	12.5	8.0
Simcoe West, Grey (in part) and Dufferin (in part)	78	44	24	....	5	......	56.4	30.8	......	6.4	......
Stormont	76	43	8	....	2	......	56.6	10.5	......	26.3	......
Victoria West	72	41	52	....	6	......	56.9	72.2	......	8.3	......
Waterloo, No. 1	56	52	21	2	4	5	92.9	37.5	3.6	7.1	8.9
Waterloo, No. 2	28	13	6	....	1	......	46.4	21.4	......	3.6	......
Welland East	15	12	6	2	3	2	80.0	40.0	13.4	20.0	13.4
Welland South	23	6	5	1	1	1	26.1	21.8	4.3	4.3	4.3
Welland (in part), Lincoln (in part) and Haldimand (in part)	75	40	52	1	6	6	53.4	69.4	1.3	8.0	8.0
Wellington North	69	54	32	....	17	......	78.3	46.4	......	24.6	......
Wellington South, and City of Guelph	56	49	32	1	16	2	87.5	57.2	1.8	28.6	3.6
Wentworth	61	41	26	2	35	22	67.2	42.7	3.3	57.4	36.1
York, No. 1	72	62	17	....	6	1	86.1	23.6	......	8.3	1.4
York, No. 2	18	17	10	4	4	3	94.5	55.6	22.2	22.2	16.6
York, No. 3	10	10	9	8	......	......	100.0	90.0	80.0	......	......
York, No. 4	8	8	8	7	......	......	100.0	100.0	81.5	......	......
York, No. 5	14	11	11	....	......	1	77.6	77.6	......	......	7.1
York, No. 6	34	26	5	4	5	4	76.5	14.7	11.8	14.7	11.8
Totals and Averages	4,769	3,201	2,334	44	544	154	67.1	48.9	.9	11.4	3.2

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 8—SPECIAL SUBJECTS

AGRICULTURE, VOCAL MUSIC, ART, HOME ECONOMICS, AND MANUAL TRAINING, IN RURAL SCHOOLS FOR THE SCHOOL YEAR, 1937-38

Public School District Inspectorates	†No. of Rural Schools	Schools which qualified for a Special Legislative Grant* for the teaching of the following subjects									
		Number					Per cent.				
		Agriculture	Vocal Music	Art	Home Economics	Manual Training	Agriculture	Vocal Music	Art	Home Economics	Manual Training
Division No. I	39	12	......	....	......	......	30.8	......	......	......	......
“ II	61	40	1	1	1	1	65.6	1.6	1.6	1.6	1.6
“ III	49	11	......	....	9	1	22.4	......	......	18.8	2.0
“ IV	58	2	1	2	10	2	3.5	1.8	3.5	17.5	3.5
“ V	47	19	11	....	3	......	40.4	23.4	......	6.4	......
“ VI	53	24	4	4	4	......	45.3	7.5	7.5	7.5	......
“ VII, Part 1	56	16	3	1	10	......	28.6	5.4	1.8	17.9	......
“ VII, Part 2	17	2	......	....	......	......	11.8	......	......	......	......
“ VIII	66	53	33	....	16	......	80.4	50.0	......	24.2	......
“ IX	57	17	2	1	6	1	29.8	3.5	1.8	10.5	1.8
“ X	62	32	3	3	11	......	51.6	4.8	4.8	17.8	......
“ XI	54	28	1	....	10	6	51.9	1.9	......	18.5	12.2
“ XII, Part 1	57	22	......	....	13	1	38.6	......	......	22.8	1.8
“ XII, Part 2	2	......	......	....	......	......	......	......	......	......	......
“ XII, Part 3	29	......	......	....	......	......	......	......	......	......	......
“ XIII	71	26	1	1	6	1	36.6	1.4	1.4	8.5	1.4
“ XIV	65	40	5	....	5	......	61.6	7.7	......	7.7	......
“ XV	58	44	1	....	10	......	75.9	1.7	......	17.2	......
“ XVI	69	31	1	....	9	......	44.9	1.4	......	13.0	......
Totals and Averages	970	419	67	13	123	13	43.2	6.9	1.3	12.7	1.3
All Public Inspectorates	5,739	3,620	2,401	57	667	167	63.1	41.8	1.0	11.6	2.9
Roman Catholic Separate School Inspectorates											
Division No. I	9	2	1	....	......	......	22.2	11.1	......	......	......
“ II	26	2	......	....	......	......	7.7	......	......	......	......
“ III	58	......	......	....	......	......	......	......	......	......	......
“ IV	43	1	......	....	......	......	2.3	......	......	......	......
“ V	21	4	1	2	......	......	19.1	4.8	9.5	......	......
“ VI	9	6	1	....	1	......	66.7	10.6	......	10.6	......
“ VII	10	......	......	....	......	......	......	......	......	......	......
“ VIII	27	8	2	1	3	......	29.7	7.4	3.7	11.2	......
“ IX	32	21	5	....	11	2	65.6	15.6	......	34.4	6.2
“ X	19	9	2	....	4	3	47.4	10.5	......	21.1	15.8
“ XI	1	1	1	1	1	......	100.0	100.0	100.0	100.0	......
“ XII	18	10	9	....	2	1	55.6	50.0	......	11.1	5.6
“ XIII	7	1	1	1	......	......	14.3	14.3	14.3	......	......
“ XIV	4	2	1	1	4	......	50.0	25.0	25.0	100.0	......
“ XV	29	23	2	1	2	5	79.3	6.9	3.5	6.9	17.2
“ XVI	24	12	1	....	......	......	50.0	4.2	......	......	......
“ XVII	10	6	......	....	......	......	60.0	......	......	......	......
“ XVIII	......	......	......	....	......	......	......	......	......	......	......
“ XIX	8	......	......	....	......	......	......	......	......	......	......
“ XX	48	2	......	....	......	......	4.2	......	......	......	......
“ XXI	43	1	......	....	1	......	2.3	......	......	2.3	......
“ XXII	50	5	......	....	......	......	10.0	......	......	......	......
Totals and Averages	496	116	27	7	29	11	23.4	5.4	1.4	5.8	2.2
Grand Totals and Averages	6,235	3,736	2,428	64	696	178	59.9	38.9	1.0	11.2	2.9

*To Board, or Teacher, or both.

†All schools, including those not in operation.

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 9—EDUCATIONAL AND HEALTH EQUIPMENT, 1937-38

Rural Schools	Number of Schools in Operation		Number of Schools which provide the following Pupils' Supplies free						Number of Schools Equipped with the Following					
			School Readers		Other Textbooks		Pupils' Work Supplies		Physical Training or Recreational Equipment		Agricultural Equipment		First Aid Equipment	
	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.
In Counties														
Addington	26	1	....	....	....	....	2	....	5	....	9	1	6	....
Brant	61	....	1	....	1	....	12	....	15	....	23	....	44	....
Bruce	166	11	1	....	3	....	11	....	46	4	120	9	95	4
Carleton	115	23	....	....	....	....	6	....	32	....	71	9	60	3
Dufferin	89	....	1	....	3	....	4	....	28	....	75	....	40	....
Dundas	72	1	2	....	2	....	3	....	12	....	45	....	21	....
Durham	99	....	3	....	3	....	10	....	33	....	68	....	63	....
Elgin	105	....	8	....	9	....	22	....	56	....	83	....	81	....
Essex	113	28	9	....	6	....	11	....	39	10	62	8	75	11
Frontenac	144	10	2	....	3	....	10	....	20	2	48	5	70	4
Glengarry	73	17	....	1	....	1	....	....	4	3	41	5	24	3
Grenville	69	....	....	....	1	....	4	....	16	....	52	....	33	....
Grey	217	7	4	....	3	....	7	....	59	2	116	3	145	2
Haldimand	74	....	....	....	....	....	3	....	21	....	34	....	57	....
Haliburton	50	....	2	....	2	....	3	....	7	....	19	....	16	....
Halton	61	....	2	....	2	....	9	....	25	....	31	....	51	....
Hastings	174	6	10	1	11	....	22	....	49	2	69	6	80	2
Huron	182	7	3	....	5	....	34	....	68	1	144	6	102	3
Kent	136	10	2	....	3	....	2	....	41	4	102	4	97	2
Lambton	169	2	2	....	4	....	19	....	58	....	108	....	109	2
Lanark	120	3	....	....	....	....	22	....	83	1	149	1	108	1
Leeds	135	2	....	....	....	....	1	....	16	....	78	....	64	....
Lennox	84	1	1	....	1	....	2	....	7	....	15	1	51	....
Lincoln	64	....	....	....	1	....	10	....	29	....	41	....	48	....
Middlesex	182	5	2	....	3	....	11	....	78	....	154	3	118	1
Norfolk	101	2	....	....	1	....	4	....	42	1	67	1	69	2
Northumberland	106	5	8	1	9	....	25	....	46	....	70	5	81	1
Ontario	121	1	1	....	1	....	....	....	33	....	48	1	79	....
Oxford	105	....	1	....	4	....	13	....	52	....	100	....	74	....
Peel	73	1	3	....	4	....	7	....	24	....	55	1	50	....
Perth	112	7	3	....	3	....	3	....	40	3	75	4	67	4
Peterborough	98	5	2	1	2	....	6	....	32	1	48	2	43	....
Prescott	50	61	....	....	....	....	....	....	3	....	13	2	11	16
Prince Edward	71	....	....	....	....	....	....	....	24	....	22	....	53	....
Renfrew	161	19	....	1	3	....	1	....	10	....	35	....	23	....
Russell	27	51	....	....	....	....	1	....	4	....	16	1	13	13
Simcoe	215	4	3	....	3	....	5	....	36	2	99	3	119	....
Stormont	76	9	....	....	....	....	....	....	10	1	27	4	38	1
Victoria	99	2	2	....	2	....	6	....	29	....	46	....	57	....
Waterloo	84	7	2	....	1	1	28	2	45	2	64	5	44	4
Welland	81	....	6	....	6	....	16	....	32	....	43	....	69	....
Wellington	142	5	6	....	7	....	31	....	45	....	62	3	47	1
Wentworth	73	1	1	....	2	....	4	....	19	1	46	1	65	1
York	189	14	44	2	49	2	55	1	110	7	124	11	146	13
Totals	4,764	328	137	7	163	4	445	3	1,483	47	2,817	105	2,806	94
In Districts														
Algoma	91	2	12	....	12	....	11	....	25	1	36	1	63	1
Cochrane	73	62	12	24	14	19	18	3	17	5	27	2	49	10
Kenora	35	1	2	....	2	....	3	....	14	....	13	....	23	....
Manitoulin	45	1	20	....	15	....	....	....	7	1	32	1	28	1
Muskoka	92	2	2	1	2	1	50	1	16	....	72	....	51	1
Nipissing	71	40	3	....	3	....	1	....	10	....	27	2	25	2
Parry Sound	118	1	6	1	8	....	15	....	25	....	48	....	39	....
Rainy River	61	3	14	3	14	2	9	1	21	2	27	2	21	2
Sudbury	102	36	11	4	11	4	14	1	22	4	30	1	24	4
Temiskaming	74	12	9	....	9	....	9	....	12	....	51	....	43	....
Thunder Bay	107	1	37	....	37	....	37	....	32	1	30	....	76	1
Totals	869	161	128	33	127	26	167	6	201	14	393	9	442	22
Totals, Rural Schools	5,633	489	265	40	290	30	612	9	1,684	61	3,210	114	3,248	116
Percentages, Rural Schools	....	....	4.7	8.2	5.1	6.1	10.8	1.8	29.8	12.5	56.9	23.3	57.6	23.7

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 9—EDUCATIONAL AND HEALTH EQUIPMENT, 1937-38

Cities	Urban Centres which provide the following Pupils' Supplies free						Urban Centres whose Schools are equipped with the Following					
	School Readers		Other Textbooks		Pupils' Work Supplies		Physical Training or Recreational Equipment		Agricultural Equipment		First Aid Equipment	
	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.
In Counties												
Belleville	......	......	......	......	......	......	x	x	x	x	x	x
Brantford	x	......	x	......	x	......	x	x	x	x	x	x
Chatham	......	......	......	......	......	......	x	x	x	x	x	x
Galt	x	......	x	......	x	......	x	......	x	x	x	x
Guelph	......	......	x	......	x	......	x	......	x	x	x	x
Hamilton	x	......	x	......	x	x	x	x	x	x	x	x
Kingston	x	......	......	......	x	x	x	x	......	x	x	x
Kitchener	x	......	x	......	x	......	x	x	x	x	x	x
London	......	......	x	......	x	......	x	x	x	x	x	x
Niagara Falls	......	......	......	......	......	......	x	x	......	x	x	x
Oshawa	......	......	......	......	x	......	x	......	x	......	x	x
Ottawa	x	......	x	......	x	......	x	......	x	x	x	x
Owen Sound	......	......	......	......	......	......	x	x	x	x	x	x
Peterborough	......	......	......	......	......	......	x	x	x	x	x	x
St. Catharines	x	......	x	......	x	......	x	......	x	x	x	x
St. Thomas	......	......	......	......	x	......	x	x	x	x	x	x
Sarnia	......	......	......	......	......	......	x	x	x	x	x	x
Stratford	......	......	......	......	......	......	x	x	x	......	x	x
Toronto	x	......	x	......	x	......	x	x	x	x	x	x
Welland	......	......	......	......	......	......	x	......	x	......	x	......
Windsor	x	x	x	x	x	x	x	x	x	x	x	x
Woodstock	x	......	x	......	x	......	x	......	x	x	x	x
In Districts												
Fort William	x	......	x	......	x	......	x	x	x	x	x	x
North Bay	......	......	......	......	......	......	x	......	x	x	x	x
Port Arthur	x	......	x	......	x	......	x	x	x	x	x	x
Sault Ste. Marie	x	......	x	......	x	......	x	x	x	x	x	x
Sudbury	......	......	......	......	x	......	x	......	......	x	x	x
Totals, Cities	13	1	14	1	18	3	27	18	24	24	27	26
Percentages	48.1	3.8	51.8	3.8	66.7	11.5	100.0	69.2	88.9	92.3	100.0	100.0
Towns (*Counties*)												
Alexandria	......	......	......	......	......	......	......	......	x	......	x	x
Alliston	......	......	......	......	......	......	x	......	x	......	x	......
Almonte	......	......	......	......	x	......	......	......	x	......	x	......
Amherstburg	......	......	......	......	......	......	x	......	x	x	x	x
Arnprior	......	......	......	......	......	......	x	......	x	......	x	......
Aurora	......	......	......	......	......	......	x	......	x	......	x	......
Aylmer	......	......	......	......	......	......	x	......	x	......	x	......
Barrie	......	......	......	......	......	......	......	......	......	x	x	x
Blenheim	......	......	......	......	......	......	x	......	......	......	x	......
Bowmanville	......	......	x	......	......	......	x	......	x	......	x	......
Brampton	x	......	x	......	......	......	x	......	x	......	x	......
Brockville	......	......	......	......	x	......	......	x	......	x	x	x
Burlington	......	......	......	......	......	......	......	......	......	......	x	......
Campbellford	......	......	......	......	......	......	......	x	......	x	x	x
Carleton Place	......	......	......	......	......	......	......	......	x	......	x	......
Chesley	......	......	......	......	......	......	x	......	......	......	x	......
Clinton	......	......	......	......	......	......	x	......	......	......	x	......
Cobourg	......	......	......	......	......	......	......	......	x	x	x	x
Collingwood	......	......	......	......	x	......	x	x	......	x	x	x
Cornwall	......	......	......	......	......	......	x	x	......	x	x	x

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 9—EDUCATIONAL AND HEALTH EQUIPMENT, 1937-38

Towns	Urban Centres which provide the following Pupils' Supplies free						Urban Centres whose Schools are equipped with the Following					
	School Readers		Other Textbooks		Pupils' Work Supplies		Physical Training or Recreational Equipment		Agricultural Equipment		First Aid Equipment	
	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.
In Counties												
Deseronto	......	......	......	......	......	......	x	......	......	......	x	......
Dresden	......	......	......	......	......	......	......	......	......	......	x	......
Dundas	......	......	......	......	......	x	x	x	......	x	x	x
Dunnville	......	......	......	......	......	......	x	......	x	......	x	......
Durham	......	......	......	......	......	......	......	......	x	......	x	......
Eastview	......	......	......	......	x	......	x	......	x	......	x	......
Elmira	......	......	......	......	......	......	x	......	x	......	x	......
Essex	......	......	......	......	......	......	......	......	......	......	x	x
Forest	......	......	......	......	x	......	......	......	x	......	x	......
Fort Erie	x	......	x	......	x	......	x	......	......	......	x	......
Gananoque	......	......	......	......	......	......	......	x	x	......	x	x
Georgetown	......	......	......	......	......	......	......	......	......	......	x	......
Goderich	......	......	......	......	......	......	x	......	x	x	x	x
Grimsby	......	......	......	......	......	......	x	......	x	......	x	......
Hanover	......	......	......	......	......	......	......	......	......	x	x	x
Harriston	......	......	......	......	......	......	x	......	x	......	......	......
Harrow	......	......	......	......	......	......	......	......	......	......	x	......
Hawkesbury	......	......	......	......	......	......	......	x	......	......	x	......
Hespeler	......	......	......	......	......	......	......	......	x	......	x	x
Ingersoll	......	......	......	......	......	......	x	x	x	x	x	x
Kincardine	......	......	......	......	......	......	......	......	......	......	x	......
Kingsville	......	......	......	......	......	......	......	......	x	......	x	......
La Salle	......	......	......	......	......	......	x	x	x	......	x	x
Leamington	......	......	......	......	......	......	x	x	x	x	x	x
Leaside	x	......	x	......	x	......	x	......	x	......	x	......
Lindsay	......	......	......	......	......	......	x	x	x	x	x	x
Listowel	......	......	......	......	......	......	x	......	x	......	x	......
Meaford	......	......	......	......	......	......	......	......	x	......	x	......
Merritton	......	......	......	......	......	......	......	......	......	......	x	x
Midland	x	......	x	......	......	......	......	......	x	......	x	x
Milton	......	......	......	......	......	......	......	......	......	......	x	......
Mimico	......	......	......	......	......	......	x	x	x	......	x	x
Mitchell	......	......	......	......	......	......	x	......	x	......	x	......
Mount Forest	......	......	......	......	......	......	x	......	x	x	......	......
Napanee	......	......	......	......	......	......	x	......	......	......	x	......
Newmarket	......	......	......	......	......	......	x	......	x	x	x	x
New Toronto	......	......	......	......	x	......	x	......	x	......	x	......
Niagara	......	......	......	......	x	......	x	......	......	......	x	......
Oakville	......	......	......	......	......	......	......	......	......	......	x	x
Orangeville	......	......	......	......	x	......	x	......	......	......	x	......
Orillia	x	......	x	......	x	......	x	......	x	......	x	......
Palmerston	......	......	......	......	......	......	x	......	x	......	......	......
Paris	......	......	......	......	......	......	x	......	x	x	x	x
Parkhill	......	......	......	......	......	......	......	......	x	x	x	......
Pembroke	......	......	......	......	x	......	......	......	x	......	x	x
Penetanguishene	......	......	......	......	......	......	......	......	x	......	x	......
Perth	......	......	......	......	......	......	x	......	x	......	x	......
Petrolia	......	......	......	......	......	......	x	......	x	......	x	......
Picton	......	......	......	......	......	......	......	x	x	......	x	......
Port Colborne	......	......	......	......	......	......	x	......	......	......	x	......
Port Hope	......	......	......	......	......	......	x	......	x	......	x	......
Prescott	......	......	......	......	......	......	......	x	x	x	x	x
Preston	x	......	x	......	x	......	x	x	x	x	x	x
Renfrew	......	......	......	......	......	......	x	......	x	......	x	......
Ridgetown	......	......	......	......	......	......	x	......	x	......	x	......

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 9—EDUCATIONAL AND HEALTH EQUIPMENT, 1937-38

Towns	Urban Centres which provide the following Pupils' Supplies free						Urban Centres whose Schools are equipped with the Following					
	School Readers		Other Textbooks		Pupils' Work Supplies		Physical Training or Recreational Equipment		Agricultural Equipment		First Aid Equipment	
	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.
In Counties												
Riverside	x	......	x	......	......	......	......	x	x	......	x	x
Rockland	......	......	......	......	......	......	......	......	x	......	......	x
St. Mary's	......	......	......	......	......	......	......	x	x	x	x	x
Seaforth	......	......	......	......	x	......	......	x	......	x	x	......
Simcoe	......	......	......	......	......	......	x	......	......	......	x	......
Smith's Falls	......	......	......	......	......	......	x	......	x	......	x	......
Southampton	......	......	......	......	x	......	x	......	x	......	x	......
Stayner	......	......	......	......	......	......	......	......	......	......	x	......
Strathroy	......	......	......	......	......	......	......	......	x	......	x	......
Tecumseh	......	......	......	......	......	......	x	x	......	......	x	x
Thornbury	......	......	......	......	......	......	......	......	x	......	x	......
Thorold	......	......	......	......	......	......	x	x	......	x	x	x
Tilbury	......	......	......	......	......	......	......	x	x	x	......	x
Tillsonburg	......	......	......	......	......	......	......	......	......	......	x	......
Trenton	......	......	......	......	x	......	x	x	x	x	x	x
Uxbridge	......	......	......	......	......	......	x	......	x	......	x	......
Vankleek Hill	......	......	......	......	......	......	......	x	......	......	x	......
Walkerton	......	......	......	......	......	......	x	x	x	x	x	x
Wallaceburg	......	......	......	......	......	......	......	......	x	x	x	x
Waterloo	......	x	......	......	x	......	x	......	x	x	x	x
Weston	......	......	......	......	x	......	x	......	x	......	x	x
Whitby	......	......	......	......	......	......	......	......	......	x	x	x
Wiarton	......	......	......	......	......	......	x	......	x	......	x	......
Wingham	......	......	x	......	......	......	x	......	x	......	x	......
In Districts												
Bala	......	......	......	......	x	......	......	......	......	......	x	......
Blind River	......	......	......	......	......	......	......	x	......	......	......	x
Bracebridge	......	......	......	......	x	......	x	......	x	......	x	......
Bruce Mines	......	......	......	......	......	......	......	......	x	......	x	......
Cache Bay	......	......	......	......	......	......	x	......	......	......	x	......
Capreol	......	......	......	......	......	......	x	......	x	......	x	......
Charlton	......	......	......	......	......	......	......	......	x	......	x	......
Chelmsford	......	x	......	x	......	......	......	x	......	......	......	x
Cobalt	x	......	x	......	x	......	......	......	x	......	x	......
Cochrane	x	......	x	......	x	......	x	......	x	......	x	x
Copper Cliff	......	......	......	......	......	......	......	......	......	......	x	......
Coniston	......	......	......	......	......	......	x	x	......	x	x	x
Dryden	......	......	......	......	......	......	x	......	x	......	x	......
Englehart	......	......	......	......	......	......	x	......	x	......	x	......
Fort Frances	x	x	x	......	x	......	x	......	x	x	x	x
Geraldton	......	......	......	......	......	......	......	......	x	......	x	......
Gore Bay	......	......	......	......	......	......	......	......	......	......	x	......
Gravenhurst	......	......	......	......	......	......	......	......	x	......	x	......
Haileybury	......	......	......	......	......	......	......	......	x	......	x	......
Hearst	......	x	......	x	......	......	x	......	x	......	x	x
Huntsville	......	......	......	......	......	......	......	......	x	......	x	......
Iroquois Falls	......	......	......	......	x	......	x	x	x	......	x	x
Kapuskasing	x	......	x	......	x	......	x	......	x	......	x	......
Kearney	......	......	......	......	......	......	......	......	x	......	x	......
Keewatin	......	......	......	......	......	......	x	......	......	x	x	......
Kenora	......	......	......	......	......	......	x	x	......	x	x	x
Larder Lake	......	......	......	......	......	......	......	......	x	......	x	......
Latchford	......	......	......	......	......	......	x	......	......	......	......	......
Little Current	......	......	......	......	......	......	......	x	x	x	x	......

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 9—EDUCATIONAL AND HEALTH EQUIPMENT, 1937-38

Towns	Urban Centres which provide the following Pupils' Supplies free						Urban Centres whose Schools are equipped with the Following					
	School Readers		Other Textbooks		Pupils' Work Supplies		Physical Training or Recreational Equipment		Agricultural Equipment		First Aid Equipment	
	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.
In Districts												
Massey									x			
Mattawa										x		
Matheson									x		x	
New Liskeard									x		x	
Parry Sound							x				x	
Powassan											x	
Rainy River											x	
Sioux Lookout							x		x		x	
Smooth Rock Falls								x	x		x	x
Sturgeon Falls							x				x	
Timmins	x		x		x		x		x		x	
Webbwood							x					
Totals, Towns	12	4	14	2	26	0	77	31	90	34	129	48
Percentages	8.3	5.1	9.7	2.6	18.1	0	52.8	39.7	62.5	43.5	88.3	61.5
Villages (*Counties*)												
Acton											x	
Ailsa Craig							x				x	
Alvinston									x			
Arkona									x			
Arthur							x	x	x	x		
Athens											x	
Ayr							x		x		x	
Bancroft												
Barry's Bay									x			
Beamsville							x		x		x	
Beaverton											x	
Beeton											x	
Belle River										x	x	x
Bloomfield							x		x		x	
Blyth									x		x	
Bobcaygeon							x		x		x	
Bradford							x		x		x	
Braeside									x			
Brighton											x	
Brussels									x			
Caledonia							x		x		x	
Cannington							x		x			
Cayuga							x		x		x	
Chatsworth									x		x	
Chesterville							x	x		x		x
Chippewa											x	
Clifford							x		x			
Corborne							x				x	
Coldwater									x		x	
Courtright											x	
Creemore											x	
Delhi											x	
Drayton									x			
Dundalk							x					
Dutton							x		x		x	
Eganville							x		x		x	
Elora					x				x			x

THE PUBLIC AND SEPARATE SCHOOLS

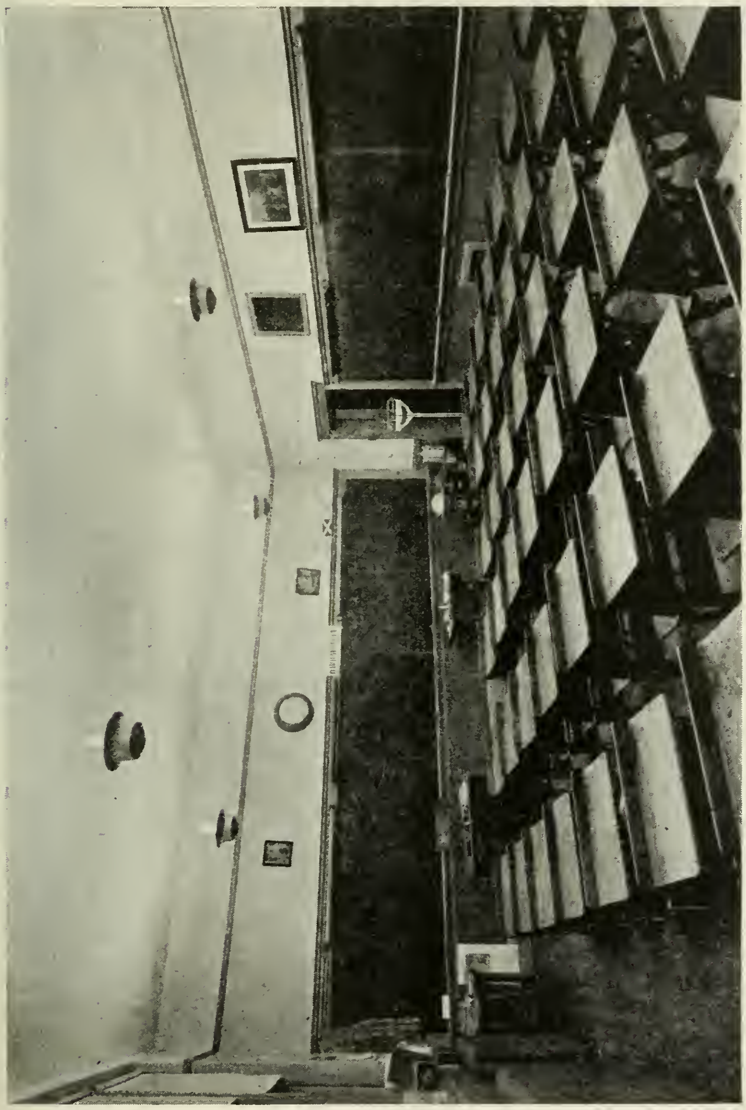
TABLE 9—EDUCATIONAL AND HEALTH EQUIPMENT, 1937-38

Villages	Urban Centres which provide the following Pupils' Supplies free						Urban Centres whose Schools are equipped with the Following					
	School Readers		Other Textbooks		Pupils' Work Supplies		Physical Training or Recreational Equipment		Agricultural Equipment		First Aid Equipment	
	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.
In Counties												
Embro	......	......	......	......	......	......	x	......	x	......	x	......
Erin	......	......	......	......	......	......	......	......	x	......	x	......
Exeter	......	......	......	......	......	......	......	......	x	......	x	......
Fenelon Falls	......	......	......	......	......	......	x	......	......	......	x	......
Fergus	......	......	......	......	x	......	......	......	x	......	......	x
Flesherton	......	......	......	......	x	......	......	......	x	......	x	......
Fonthill	......	......	......	......	x	......	x	......	x	......	x	......
Forest Hill	x	......	x	......	x	......	x	x	x	......	x	x
Frankford	......	......	......	......	......	......	x	......	......	......	x	......
Glencoe	......	......	......	......	......	......	......	......	x	......	x	......
Grand Valley	......	......	......	......	......	......	x	......	x	......	......	......
Hagersville	......	......	......	......	......	......	x	......	x	......	x	......
Hastings	......	......	......	......	......	......	......	......	x	......	x	......
Havelock	......	......	......	......	......	......	x	......	......	......	x	......
Hensall	......	......	......	......	......	......	x	......	x	......	x	......
Hepworth	......	......	......	......	......	......	x	......	x	......	x	......
Humberstone	......	......	......	......	......	......	x	......	x	......	x	......
Iroquois	......	......	......	......	......	......	......	......	......	......	x	......
Jarvis	......	......	......	......	......	......	......	......	......	......	x	......
Kemptville	......	......	......	......	......	......	x	......	x	......	x	......
Lakefield	......	......	......	......	......	......	x	......	......	......	x	......
Lanark	......	......	......	......	......	......	......	......	x	......	x	......
Lancaster	......	......	......	......	......	......	......	......	......	......	......	x
Lion's Head	......	......	......	......	......	......	x	......	x	......	x	......
Long Branch	x	......	x	......	x	......	x	......	x	......	x	......
L'Orignal	......	......	......	......	......	......	......	......	......	......	x	......
Lucan	......	......	......	......	......	......	x	......	......	......	......	......
Lucknow	......	......	......	......	......	......	x	......	......	......	......	......
Madoc	......	......	......	......	......	......	x	......	......	......	x	......
Markdale	......	......	......	......	......	......	......	......	x	......	......	......
Markham	......	......	......	......	......	......	......	......	x	......	x	......
Marmora	......	......	......	......	......	......	......	......	......	x	x	......
Maxville	......	......	......	......	......	......	......	......	x	......	......	......
Merrickville	......	......	......	......	......	......	......	......	x	......	x	......
Mildmay	......	......	......	......	......	......	x	x	x	x	......	x
Millbrook	......	......	......	......	......	......	......	......	......	......	x	......
Milverton	......	......	......	......	......	......	......	......	x	......	x	......
Morrisburg	......	......	......	......	......	......	x	......	......	......	x	......
Neustadt	......	......	......	......	......	......	x	......	x	......	x	......
Newboro	......	......	......	......	......	......	......	......	x	......	......	......
Newburgh	......	......	......	......	......	......	x	......	x	......	x	......
Newbury	......	......	......	......	......	......	......	......	x	......	x	......
Newcastle	......	......	......	......	......	......	......	......	......	......	x	......
New Hamburg	......	......	......	......	......	......	......	......	......	......	x	......
Norwich	......	......	......	......	......	......	x	......	x	......	x	......
Norwood	......	......	......	......	......	......	x	......	x	......	x	......
Oil Springs	......	......	......	......	......	......	......	......	x	......	x	......
Omemee	......	......	......	......	......	......	x	......	......	......	x	......
Paisley	......	......	......	......	......	......	x	......	......	......	x	......
Point Edward	......	......	......	......	......	......	x	......	x	......	x	......
Port Credit	......	......	......	......	x	......	x	......	x	......	x	......
Port Dalhousie	......	......	......	......	......	......	......	......	......	x	x	x
Port Dover	......	......	......	......	......	......	......	......	......	......	x	......
Port Elgin	......	......	......	......	......	......	x	......	x	......	......	......
Port McNichol	......	......	......	......	......	......	......	......	x	......	x	......

THE PUBLIC AND SEPARATE SCHOOLS

TABLE 9—EDUCATIONAL AND HEALTH EQUIPMENT, 1937-38

Villages	Urban Centres which provide the following Pupils' Supplies free						Urban Centres whose Schools are equipped with the Following					
	School Readers		Other Textbooks		Pupils' Work Supplies		Physical Training or Recreational Equipment		Agricultural Equipment		First Aid Equipment	
	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.	Pub.	Sep.
In Counties												
Port Perry	......	......	......	......	......	......	......	......	......	......	x	......
Port Rowan	......	......	......	......	......	......	x	......	x	......	x	......
Port Stanley	......	......	......	......	x	......	......	......	x	......	x	......
Portsmouth	......	......	......	......	......	......	......	......	......	......	x	......
Richmond	......	......	......	......	......	......	x	......	x	......	x	......
Richmond Hill	......	......	......	......	......	......	x	......	x	......	x	......
Ripley	......	......	......	......	......	......	......	......	......	......	x	......
Rockcliffe	x	......	x	......	x	......	x	......	x	......	x	......
Rodney	......	......	......	......	......	......	x	......	x	......	x	......
St. Clair Beach	......	......	......	......	......	......	x	......	......	......	......	......
Shallow Lake	......	......	......	......	......	......	x	......	x	......	x	......
Shelburne	......	......	......	......	......	......	x	......	......	......	x	......
Springfield	......	......	......	......	......	......	......	......	x	......	x	......
Stirling	......	......	......	......	......	......	x	......	x	......	x	......
Stoney Creek	......	......	......	......	......	......	......	......	x	......	x	......
Stouffville	......	......	......	......	......	......	x	......	x	......	x	......
Streetsville	......	......	......	......	......	......	x	......	......	......	x	......
Sutton	......	......	......	......	......	......	......	......	......	......	x	......
Swansea	x	......	x	......	x	......	x	x	x	......	x	x
Tavistock	......	......	......	......	......	......	......	......	......	......	x	......
Teeswater	......	......	......	......	......	......	x	......	x	x	x	......
Thamesville	......	......	......	......	......	......	x	......	x	......	......	......
Thedford	......	......	......	......	......	......	......	......	......	......	x	......
Tiverton	......	......	......	......	x	......	......	......	......	......	x	......
Tweed	......	......	......	......	......	......	x	x	x	x	x	x
Victoria Harbour	......	......	......	......	......	......	x	......	......	......	x	......
Vienna	......	......	......	......	......	......	......	......	x	......	x	......
Wardsville	......	......	......	......	......	......	......	......	x	......	x	......
Waterdown	......	......	......	......	......	......	......	......	x	......	x	......
Waterford	......	......	......	......	......	......	......	......	x	......	x	......
Watford	......	......	......	......	......	......	x	......	x	......	x	......
Wellington	......	......	......	......	......	......	x	......	x	......	x	......
West Lorne	......	......	......	......	......	......	......	......	x	......	x	......
Wheatley	......	......	......	......	......	......	......	......	x	......	x	......
Winchester	......	......	......	......	......	......	......	......	x	......	x	......
Woodbridge	......	......	......	......	......	......	......	......	x	......	......	......
Woodville	......	......	......	......	......	......	......	......	x	......	x	......
Wyoming	......	......	......	......	x	......	x	......	x	......	x	......
In Districts												
Burk's Falls	......	......	......	......	......	......	x	......	......	......	x	......
Port Carling	......	......	......	......	x	......	......	......	x	......	x	......
Port Sydney	......	......	......	......	x	......	......	......	x	......	x	......
Rosseau	......	......	......	......	x	......	x	......	x	......	x	......
South River	......	......	......	......	......	......	......	......	x	......	x	......
Sundridge	......	......	......	......	......	......	......	......	x	......	......	......
Windermere	......	......	......	......	x	......	......	......	x	......	......	......
Totals, Villages	4	0	4	0	16	0	66	6	90	8	109	10
Percentages	2.7	0	2.7	0	10.7	0	42.3	28.6	59.4	38.1	69.8	47.7
Totals, All Urban Municipalities	29	5	32	3	60	3	170	55	204	66	265	84
Percentages	9.0	4.0	10.0	2.4	18.7	2.4	52.0	44.0	63.2	52.8	80.6	67.2



Good Classroom Lighting

Example of glareless but adequate sight-saving indirect illumination as found in Brampton Public Schools.

Courtesy "Canadian School Journal".

THE PUBLIC AND

TABLE 10—REPORT OF THE HEALTH SERVICES IN

	(A) Municipalities in which School Medical or Nursing Service is sponsored by local Boards of Health		No. of School Children Enrolled	Personnel			No. of Children entering Grade I.	No. of these who had physical examination before entering
				Reg. Nurse	M.D.	D.D.S.		
	Cities	Schools						
1	Brantford	Pub. and Sep.	4,558	4	½	1	475	56
2	Hamilton	Pub. and Sep.	24,270	32	6	9	1,735	....
3	Kitchener	Pub. and Sep.	5,850	6	½	1	553	406
4	North Bay	Pub. and Sep.	2,885	2	....	‡	363	....
5	Oshawa	Pub. and Sep.	4,300	4	....	4, ½t.	636	....
6	Ottawa	Sep.	11,229	13	....	....	996	....
7	Port Arthur	Pub. and Sep.	1,525	2	....	‡	195	100
8	St. Catharines	Pub. and Sep.	4,254	5	½	1	449	....
9	St. Thomas	Pub. and Sep.	2,110	2	....	p.t.	205	129
10	Sarnia	Pub. and Sep.	2,848	3	....	p.t.	366	....
11	Stratford	Pub. and Sep.	2,466	2	....	p.t.	228	83
12	Toronto	Pub. and Sep.	94,485	93	....	....	8,672	....
13	Woodstock	Pub. and Sep.	1,584	2	....	....	204	129
	Suburban							
1	York East	Pub. and Sep.	6,094	4	....	....	817	191
2	Tork Township	Pub. and Sep.	11,730	9	2 p.t.	6 p.t.	*	*
	Towns							
1	Burlington	Pub.	539	1	¼	‡	54	....
2	Cochrane	Pub., Sep. and High	861	1	....	....	82	....
3	Cornwall	Pub. and Sep.	2,745	1	....	....	492	....
4	Dryden (*a*)	Pub.	362	1	....	....	45	....
5	Dundas (*b*)	Sep.	98	1	....	‡	14	....
6	Elmira	Pub. and Sep.	382	1	....	....	42	....
7	Fort Frances	Pub. and Sep.	1,239	1	....	....	150	....
8	Haileybury	Pub., Sep. and High	607	1	....	....	51	....
9	Ingersoll	Pub. and Sep.	773	1	¼	‡	75	46
10	Kirkland Lake (Teck Twp.)	Pub. and Sep.	Due to	reorgan	ization	of servi	ces, no repo	rt sent in.
11	Lindsay	Pub. and Sep.	1,028	1	....	....	130	42
12	Midland	Pub. and Sep.	1,173	1	....	‡	122	71
13	New Toronto	Pub.	1,238	1	¼	p.t.	168	....
14	Oakville (*c*)	Pub. and Sep.	855	1	....	....	88	....
15	Orillia	Pub. and Sep.	1,458	1	....	‡	192	112
16	Paris	Pub. and Sep.	555	1	....	....	63	....
17	Penetanguishene	Pub. and Sep.	927	1	....	‡	75	68
18	Perth	Pub. and Sep.	609	1	....	p.t.	67	....
19	Port Colborne	Pub.	1,420	1	¼	....	183	....
20	Renfrew	Pub. and Sep.	974	1	....	....	101	....
21	St. Mary's	Pub., Sep. and High	791	1	¼	p.t.	52	....
22	Simcoe	Pub.	868	1	....	....	106	....
23	Strathroy	Pub.	416	1	....	....	62	44
24	Timmins	Pub. and Sep.	4,903	2½	¼	....	581	....
25	Wallaceburg	Pub. and Sep.	981	1	....	‡	116	....
26	Weston	Pub. and Sep.	932	1	....	‡	138	....
	Villages							
1	Forest Hill	Pub.	1,221	1	¼	p.t.	141	15
2	Swansea	Pub.	678	1	....	p.t.	90	....
	Part Time							
1	Gananoque		....	....	....	....	....	....
	Rural Units							
1	Ayr, Ntb. and Sth. Dumfries	Pub.	782	1	....	....	95	....
2	Etobicoke Twp., Lambton Mills and Islington	Pub.	855	1	....	p.t.	108	....
3	Tecumseh and E. Sandwich	Pub. and Sep.	1,814	1	....	....	166	22
4	York North Twp.	Pub. and Sep.	2,555	1	¼	‡	328	....
5	Eastern Ontario Health Unit Glengarry, Stormont, Russell, Prescott.	Pub. and Sep. 387	15,240	8	....	....	....	....
	(A)—Totals		230,068	....	....	....	20,071	1,514

(*a*) Assisted by Red Cross. (*b*) Salary paid by private individual.
(*c*) Includes S.S. 12, 13, 16, 18, Trafalgar Twp. (part-time service).
‡ in D.D.S. column means some dental work done by service clubs or other private agencies.
*Not available.

SEPARATE SCHOOLS

THE PUBLIC AND SEPARATE SCHOOLS OF ONTARIO, 1938

	No. of defects (other than dental) requiring correction found, 1938	No. of these defects corrected, 1938	No. of children with dental defects found, 1938	No. of children with dental defects corrected, 1938	No. excluded because of communicable disease	No. of Grade VIII children completing course, 1938	No. of these leaving with uncorrected defects	Vision	Hearing	Tonsils	Dental	Other
1	534	180	....	717	597	453	129	12	3	88	......	31
2	4,075	1,359	147	5,207	167	2,302	*	*	*	*	*	*
3	1,021	406	....	2,038	328	573	53	2	......	15	9	27
4	244	54	422	465	221	304	108	9	1	72	81	26
5	491	*	1,023	642	463	437	213	7	1	186	113	7
6	418	190	3,018	744	504	*	*	*	*	*	*	*
7	*	8	305	180	200	*	111	......	......	......	......	......
8	445	166	249	474	259	396	26	8	......	53	......	44
9	304	47	542	473	181	265	66	12	2	45	24	29
10	233	120	537	289	176	275	70	8	1	51	42	2
11	169	85	806	536	117	287	60	7	1	18	52	2
12	......	....	....	....	....	....	....	......	......	......	......	......
13	161	120	601	338	96	196	87	4	1	32	56	1
1	377	292	1,167	241	605	680	110	23	4	62	280	17
2	2,834	*	8,327	3,744	1,626	*	*	*	*	*	*	*
1	75	18	137	78	196	65	22	1	......	14	17	......
2	143	63	297	76	61	58	21	11	2	7	48	1
3	156	88	281	648	259	317	147	19	3	34	121	7
4	56	4	17	26	103	42	25	2	......	5	23	8
5	4	1	28	26	15	16	4	......	......	......	4	......
6	20	12	113	63	20	43	10	5	1	2	8	......
7	76	6	571	12	169	99	68	2	1	22	54	15
8	79	10	367	46	54	36	12	......	2	4	9	1
9	143	34	42	33	45	88	21	1	1	9	15	1
10		Due to	reorgani	zation of	services,	no report	sent in.					
11	110	10	99	31	91	113	33	3	......	14	18	......
12	59	31	406	156	168	97	44	2	......	11	31	1
13	142	47	836	223	98	114	90	3	1	44	44	15
14	60	50	490	161	47	58	11	......	......	9	......	1
15	109	65	377	199	68	121	*	*	*	*	*	*
16	21	15	148	41	34	60	12	1	1	8	......	4
17	95	90	68	68	136	98	13	2	......	1	10	1
18	22	10	78	119	22	74	41	5	......	13	28	......
19	132	35	86	57	154	132	37	5	......	32	12	3
20	117	6	148	155	142	87	38	3	......	16	33	1
21	17	16	305	248	24	54	4	......	......	2	......	2
22	65	36	143	310	42	89	39	2	1	19	32	......
23	17	11	....	42	17	36	16	......	......	8	6	......
24	1,831	68	4,043	216	1,355	377	293	19	8	101	192	71
25	46	29	74	33	105	66	16	2	......	7	11	6
26	150	15	45	44	51	101	27	3	......	3	17	16
1	*	*	*	*	138	76	2	2	......	......	......	......
2	44	6	34	99	14	64	16	1	......	13	18	......
1	......	....	....	....	....	....	....	......	......	......	......	......
1	19	9	156	81	32	87	26	......	......	6	23	......
2	78	51	....	371	196	71	10	1	......	8	3	3
3	162	39	92	94	328	144	79	12	5	21	79	23
4	521	6	168	11	63	251	62	8	4	37	20	29
5	2,227	821	2,764	....	....	....	....	......	......	......	......	......
	18,102	4,729	29,557	19,855	9,787	9,302	2,272	207	44	1,092	1,533	395

THE PUBLIC AND

TABLE 10—REPORT OF THE HEALTH SERVICES IN

	(B) Municipalities in which School Medical or Nursing Service is sponsored by local School Boards		No. of School Children Enrolled	Personnel			No. of Children entering Grade I.	No. of these who had physical examination before entering
				Reg. Nurse	M.D.	D.D.S.		
	Cities							
1	Belleville	Pub.	1,751	1	....	p.t.	189	....
2	Chatham	Pub.	2,000	1	....	‡	240	75
3	Fort William	Pub.	3,319	3	....	‡	216	134
4	Galt	Pub. and Sep.	1,921	1	¼	‡	198	....
5	Guelph	Pub.	2,508	1	....	‡	260	....
6	Kingston	Pub.	2,859	2	....	p.t.	351	....
7	London	High and Pub.	12,553	6	1	6 p.t.	835	....
8	London	Sep.	1,232	1	....	....	175	....
9	Niagara Falls	Pub. and Sep.	2,912	2	....	‡	323	24
10	Ottawa	Pub.	9,565	5	1	1	*	*
11	Owen Sound	Pub. and Sep.	2,266	2	....	p.t.	261	....
12	Peterborough	Pub.	2,776	2	¼	p.t.	270	....
13	Sault Ste. Marie	Pub.	3,086	2	....	‡	373	....
14	Sudbury	Pub.	2,200	1	....	p.t.	350	....
15	Sudbury	Sep.	2,277	1	....	‡	541	....
16	Welland	High and Pub.	1,900+	1	....	‡	196	....
17	Windsor	High and Pub.	27,696	10	3 p.t. 1 f.t.	3	846	....
	Towns							
1	Barrie	Pub. and Sep.	1,317	1	....	p.t.	130	....
2	Brockville	Pub.	1,218	1	....	‡	159	....
3	Collingwood	Pub.	863	1	....	....	18	....
4	Long Branch	Pub.	1,098	1	....	p.t.	117	101
5	Mimico	Pub. and Sep.	1,360	1	....	p.t.	165	106
6	Pembroke	Pub.	1,016	1	....	....	140	24
7	Pembroke	Sep.	936	1	....	....	116	40
8	Waterloo	Pub. and Sep.	1,496	1	....	‡	152	105
	Part Time							
1	Brant Co. and Waterford	Pub.	535	1	....	....	109	....
2	Brockville	Sep.	230	1	....	p.t.	49	....
3	Etobicoke (Alderwood)	Pub.	541	1	....	....	62	....
4	Etobicoke (Humber Bay)	Pub.	534	1	....	....	73	....
5	Georgetown	Pub.	304	1	....	‡	53	....
6	Kingston	Sep.	904	1	....	p.t.	122	....
7	Leaside	Pub.	520	1	....	p.t.	74	....
8	Riverside	Pub.	590	1	....	....	51	33
9	Scarboro Twp., S.S. 13	Pub.	450	1	....	....	133	47
10	Scarboro, S.S. 15	Pub.	560	1	....	....	62	32
11	Southampton	Pub.	234	1	....	....	27	*
12	Trafalgar Twp.—*See Oakville.*							
13	Trenton	Pub.	1,026	1	....	....	112	*
14	Wiarton	Pub.	....	....	....	....	....	....
15	Rockcliffe	Pub.	130	1	⅛	....	22	6
	Rural Units							
1	Carleton County (Nepean Twp.)	Pub.	1,369	1	....	‡	166	....
2	Haldimand	Pub.	1,155	1	....	....	148	114
3	Lincoln East	Pub. and Sep.	1,698	1	....	....	180	....
4	Lincoln West	Pub.	1,685	1	....	‡	175	....
5	Peel (part) and Brampton	Pub.	1,479	1	....	‡	205	42
6	Welland County (Stamford, Willoughby, Chippawa)	Pub.	1,700	1	....	‡	181	14
7	Welland County (Thorold)	Pub. and Sep.	1,104	1	....	‡	98	....
8	Welland County (Fort Erie)	Pub. and High	1,106	1	....	....	84	....
9	Welland County (Fort Erie N.)	Pub. and High	950	1	....	....	64	....
10	Wentworth County	Pub.	2,658	2	....	p.t.	281	....
11	York County (Scarboro, S.S. 10, 12)	Pub.	1,667	1	....	....	210	38
	(B)—Totals		124,616	....	....	....	9,362	6,324

‡ in D.D.S. column means some dental work done by service clubs or other private agencies.
*Not available.

SEPARATE SCHOOLS

THE PUBLIC AND SEPARATE SCHOOLS OF ONTARIO, 1938

	No. of defects (other than dental) requiring correction found, 1938	No. of these defects corrected, 1938	No. of children with dental defects found, 1938	No. of children with dental defects corrected, 1938	No. excluded because of communicable disease	No. of Grade VIII children completing course, 1938	No. of these leaving with uncorrected defects	Vision	Hearing	Tonsils	Dental	Other
1	41	35	1,500	552	104	163	61	7	......	23	31	......
2	143	81	435	375	166	165	16	1	1	4	12	......
3	351	122	494	385	287	343	193	10	5	62	109	6
4	194	98	260	260	26	216	17	1	2	10	......	4
5	41	....	158	138	129	264	107	5	2	10	92	3
6	138	30	480	326	542	295	118	12	2	29	72	14
7	1,521	207	4,136	3,549	666	870	178	14	12	84	587	107
8	85	48	384	92	216	112	54	3	......	16	39	......
9	238	100	568	496	537	330	38	5	2	29	......	12
10	1,076	*	2,496	2,548	186	*	*	*	*	*	*	*
11	250	78	1,014	517	236	193	63	3	......	40	39	7
12	185	38	*	726	380	316	30	......	2	8	14	4
13	322	67	498	229	222	327	108	11	3	37	86	2
14	284	200	954	432	158	221	34	7	6	22	21	14
15	128	20	220	159	29	122	27	3	......	7	10	4
16	175	35	281	90	119	189	....	4	......	39	92	1
17	*	*	*	4,197	883	1,214	....	......	......	......	......	......
1	45	27	255	161	58	81	18	1	2	8	8	3
2	74	22	579	258	177	133	45	4	2	14	27	......
3	30	22	45	*	26	40	3	*	*	*	*	*
4	93	29	593	346	100	83	49	1	1	8	48	2
5	77	40	498	276	76	196	40	1	......	15	40	7
6	235	26	178	418	374	68	33	3	1	15	28	6
7	80	20	54	88	152	47	45	6	......	11	25	1
8	79	57	285	207	43	126	24	7	......	20	15	1
1	49	*	*	*	45	53	28	1	......	14	13	......
2	19	5	59	48	*	24	8	1	......	7	8	......
3	55	13	*	32	24	51	....	12	4	5	37	11
4	48	14	723	38	83	57	50	26	5	21	44	9
5	29	9	280	52	43	27	5	......	1	......	4	......
6	37	12	129	112	59	96	59	9	1	24	53	6
7	70	52	287	427	48	36	7	1	......	1	5	......
8	27	*	303	80	40	73	22	......	......	4	21	......
9	105	67	54	17	61	41	22	6	......	6	6	4
10	194	22	104	77	127	55	17	4	2	4	15	5
11	*	*	125	10	36	18	....	6	......	1	12	......
13	*	*	387	204	19	90	5	2	......	3	2	......
14	......	....	....	....	....	....	....	......	......	......	......	......
15	9	*	5	5	....	12	1	1	......	......	1	......
1	65	8	237	108	149	145	90	6	2	15	70	......
2	57	39	161	83	66	110	40	......	......	19	21	......
3	130	51	236	90	39	149	139	4	......	17	139	......
4	154	59	195	200	72	162	42	2	......	25	42	......
5	486	55	430	121	186	153	77	10	3	50	40	17
6	91	74	440	308	123	126	66	5	......	2	59	......
7	66	29	364	268	64	141	74	3	1	14	64	4
8	90	46	201	284	21	70	27	1	......	5	24	2
9	22	11	97	37	30	34	16	1	1	8	5	1
10	163	78	371	269	153	*	*	*	*	*	*	*
11	483	44	211	75	76	151	123	8	4	51	45	13
	8,334	2,090	21,764	19,776	7,456	7,988	2,219	218	67	807	2,125	270

THE PUBLIC AND

TABLE 10—REPORT OF THE HEALTH SERVICES IN

(C) Municipalities in which School Nursing Service is paid for by School Boards and given by V.O.N.		No. of School Children Enrolled	Personnel			No. of Children entering Grade I.	No. of these who had physical examinaion before entering
			Reg. Nurse	M.D.	D.D.S.		
Municipality	School						
1 Braeside							
2 Cobalt	Pub. and Sep.	687	½			89	
3 Dundas	Pub.	633	¼		‡	80	
4 Eastview	Pub.	247	¼			35	
5 Huntsville	Pub.	515	½		‡	61	
6 London Twp., S.S. 28	Pub.	96	¼			8	
7 Napanee	Pub.	475	½		‡	64	37
8 Nelson Twp.	Pub.	221	¼			28	
9 New Liskeard	Pub. and Sep.	555	½		‡	74	
10 Point Edward	Pub.	180	¼			30	
11 Preston	Pub. and Sep.	966	½			109	69
12 Walkerton	Pub., Sep. and High	582	¼			53	
13 Westminster Twp., S.S. 22	Pub.	20	¼			19	
14 Whitby	Pub. and Sep.	520	½		‡	57	
(C) Totals		5,877				707	106
Private Agency Sponsoring Nursing Service							
1 Hespeler							
2 Creighton	Pub.	279					
3 Levack	Pub.	115	1				
4 Copper Cliff	Pub.	573					
5 Schumacher	Pub.	725	1	⅛		90	
6 Sth. Porcupine and Dome Mine	Pub.	703	1	⅛		77	
Totals		2,395				167	
(D) Municipalities in which School Nursing Service is given by Red Cross from Outposts							
1 Apsley	Pub. 14 Schools	235	¼				
2 Armstrong	Pub. 3	126	¼			22	
3 Atikokan	Pub. 11	159	¼			22	
4 Bancroft							
5 Callander	Sep. 12, Pub. 20	1,388	¾			251	
6 Coe Hill	Pub. 13	339	¼			55	
7 Hawk Junction	Pub. 8	243	¼			33	*
8 Haliburton	Pub. 10	235	¼			*	*
9 Hornepayne							
10 Jellicoe							
11 Kakabeka Falls	Pub. 53, Sep. 1	1,188	¼	Dental coach		184	
12 Lion's Head, Bruce Pen.	Pub. 18	511	¼			62	
13 Manitoulin Island	Sep. 1, Pub. 44.	1,126			‡	163	
14 Nakina							
15 Port Loring	Pub. 6	234	¼			35	
16 Quibell	Pub. 7	250	¼			61	
17 Rainy River							
18 Redditt	Pub. 2	112	¼			10	
19 St. Joseph's Island	Pub. 22	504	¼		‡	56	
20 Whitney	Sep. 2, Pub. 10	360	¼			35	
21 Wilberforce	Pub. 10	276	¼			41	
22 Toronto Twp., Port Credit	Pub. 7	710	½		‡	107	21
(D) Totals		7,996				1,137	21
Grand Totals		370,952				31,444	7,965

‡ in D.D.S. column means some dental work done by service clubs or other private agencies.
*Not available.

SEPARATE SCHOOLS

THE PUBLIC AND SEPARATE SCHOOLS OF ONTARIO, 1938

	No. of defects (other than dental) requiring correction found, 1938	No. of these defects corrected, 1938	No. of children with dental defects found, 1938	No. of children with dental defects corrected, 1938	No. excluded because of communicable disease	No. of Grade VIII children completing course, 1938	No. of these leaving with uncorrected defects	Vision	Hearing	Tonsils	Dental	Other
1	......	......	......	......	......	......	......	......	......	......	......	......
2	38	12	128	66	14	73	42	7	1	25	......	9
3	43	16	75	45	10	47	15	1	1	6	11	4
4	15	2	112	10	4	17	10	2	......	......	8	......
5	17	5	19	60	19	47	7	......	......	2	6	1
6	9	1	17	3	2	9	7	......	......	1	6	......
7	71	26	68	65	31	36	12	4	......	2	4	4
8	17	9	92	27	17	26	7	1	......	3	4	1
9	59	17	89	35	36	43	12	2	......	3	7	3
10	20	5	52	10	25	14	4	3	......	......	8	1
11	108	77	129	35	23	85	33	......	......	7	25	3
12	35	18	362	157	38	43	6	2	......	4	......	......
13	12	12	31	20	1	8	......	......	......	10	......	......
14	33	20	64	50	4	63	11	2	......	8	......	5
	477	220	1,238	583	224	511	166	24	2	71	79	31
1	......	......	......	......	......	......	......	......	......	......	......	......
1	177	32	258	50	*	*	*	*	*	*	*	*
2	74	9	95	31	*	*	*	*	*	*	*	*
3	179	91	404	189	......	59	55	5	1	13	55	17
4	103	24	426	185	45	60	43	1	2	17	35	3
5	51	4	87	64	24	78	47	3	......	26	38	24
	584	160	1,270	519	69	197	145	9	3	56	128	44
1	12	2	184	10	14	23	23	......	......	6	17	......
2	14	2	17	3	1	12	9	1	......	4	4	2
3	8	......	111	32	13	27	14	......	......	7	8	2
4	......	......	......	......	......	......	......	......	......	......	......	......
5	141	15	650	50	142	150	50	10	1	12	......	27
6	32	......	300	30	34	30	8	......	......	6	......	4
7	*	*	101	*	10	31	27	4	......	10	9	4
8	334	*	134	*	*	*	*	*	*	*	*	*
9	......	......	......	......	......	......	......	......	......	......	......	......
10	......	......	......	......	......	......	......	......	......	......	......	......
11	153	34	368	168	18	*	*	*	*	*	*	*
12	5	......	93	24	5	*	*	*	*	*	*	*
13	168	*	246	50	21	*	......	......	......	......	......	......
14	......	......	......	......	......	......	......	......	......	......	......	......
15	32	3	11	6	*	*	*	*	*	*	*	*
16	60	34	34	19	8	50	36	......	......	20	10	18
17	......	......	......	......	......	......	......	......	......	......	......	......
18	28	1	60	13	3	4	3	......	......	1	3	......
19	366	9	265	126	*	*	*	*	*	*	*	*
20	18	4	126	24	30	12	9	......	......	1	8	1
21	30	11	46	8	3	67	4	......	......	4	......	......
22	109	32	86	20	15	84	60	3	......	12	34	11
	1,510	147	2,841	583	317	490	235	18	1	83	93	69
	29,007	7,346	56,670	41,316	17,853	18,488	5,037	476	118	2,109	3,958	809

THE PUBLIC SCHOOLS

TABLE 11—AGE-GRADE DISTRIBUTION, MAY, 1938

(A) ALL SCHOOLS

		Under 5 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	16 yrs.	17 yrs.	18 yrs.	19 yrs. and over	Totals	Totals by Grades	Per-cent of Total Enrol-ment	Average Age		Average Increment of Age between Grades		
																					By Sex	Aver-age		By Sex	Aver age
Kindergarten...	Boys	21	4079	3458	225	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7785	15076	3.32	6.00	5.99			
	Girls	19	3912	3192	168	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7291			5.98				
Kindergarten-Primary.....	Boys	4	1216	2769	1104	291	71	27	18	11	7	.....	.....	.....	.....	.....	.....	5518	10594	2.33	6.68	6.63			
	Girls	4	1170	2719	946	163	37	16	13	5	3	.....	.....	.....	.....	.....	.....	5076			6.58				
GRADE I.....	Boys	23	1097	12081	15579	5266	1434	481	202	100	55	27	14	7	4	2	.....	36372	68296	15.03	7.43	7.36			
	Girls	37	1167	11853	13789	3834	778	241	97	65	33	12	12	5	1	.....	.....	31924			7.28				
GRADE II....	Boys	.....	10	413	7838	12854	5791	2080	635	274	133	52	20	8	1	.....	.....	30109	57549	12.66	8.68	8.58	Grade I to Grade II	1.25	1.22
	Girls		9	558	8524	12075	4401	1229	378	161	51	31	12	7	1	.....	.....	27440			8.48			1.20	
GRADE III...	Boys	.....	.....	10	593	5315	7932	4239	1749	675	195	99	40	10	3	.....	.....	20860	39815	8.76	9.73	9.61	Grade II to Grade III	1 05	1.03
	Girls	.....	.....	13	806	6090	7483	2964	1018	348	142	59	23	6	2	1	.....	18955			9.47			.99	
GRADE IV...	Boys	.....	.....	.....	49	2126	6404	5792	3158	1481	630	215	71	9	5	1	.....	19941	38715	8.52	10.13	10.26	Grade III to Grade IV	.70	.65
	Girls	.....	.....	.....	92	2969	7171	4889	2364	849	302	94	30	9	4	....	1	18774			10.08			.61	
GRADE V....	Boys	.....	.....	.....	1	158	3823	9797	7628	4639	2322	1009	241	57	12	2	.....	29689	58678	12.91	11.36	11.23	Grade IV to Grade V	.93	.97
	Girls	.....	.....	.....	1	216	4940	11011	6788	3335	2006	520	140	26	6	....	.....	28989			11.09			1.01	
GRADE VI...	Boys	.....	.....	.....	.....	14	175	3506	8634	7313	4819	2387	892	118	21	1	.....	27880	55168	12.14	12.38	12.23	Grade V to Grade VI	1.02	1.00
	Girls	.....	.....	.....	.....	18	328	1778	9603	6937	3441	1667	421	81	10	1	.....	27288			12.07			.98	
GRADE VII..	Boys	.....	.....	.....	.....	.....	12	284	3478	8069	7070	4452	2170	420	46	5	.....	26006	51838	11.41	13.28	13.16	Grade VI to Grade VII	.90	.93
	Girls	.....	.....	.....	.....	1	18	347	4511	9037	6662	3526	1456	239	31	3	1	25832			13.04			.97	
GRADE VIII..	Boys	.....	.....	.....	.....	.....	.....	14	306	3315	7844	6768	4120	1290	184	10	6	23857	48945	10.77	14.16	14.04	Grade VII to Grade VIII	.88	.88
	Girls	.....	.....	.....	.....	.....	4	24	499	4564	9059	6501	3404	924	95	10	4	25088			13.93			.89	
GRADE IX...	Boys	.....	.....	.....	.....	1	2	.....	9	66	347	558	427	184	39	7	1	1641	4381	.96	14.76	14.79	Grade VIII to Grade IX	.60	.75
	Girls	.....	.....	.....	.....	.....	.....	.....	10	101	590	897	760	292	74	13	3	2740			14.80			.87	
GRADE X....	Boys	.....	.....	.....	.....	.....	.....	.....	.....	2	34	123	214	155	74	10	19	631	1522	.33	15.84	15.72	Grade IX to Grade X	1.08	.93
	Girls	.....	.....	.....	.....	.....	.....	.....	.....	7	43	171	345	273	37	13	2	891			15.63			.83	
JR AUXILIARY CLASSES.....	Boys	.....	.....	7	41	94	181	282	313	386	369	397	403	137	38	5	4	2657	3932	.86	12.92	12.78	....	.....	.....
	Girls	.....	.....	5	9	67	113	156	192	216	164	163	117	45	14	12	2	1275			12.49		....	.....	.....
TOTALS BY SEXES....	Boys	48	6402	18738	25430	26121	25825	26502	26130	26331	23825	16087	8612	2395	427	43	30	232946	....	....	....	......	Average.....	.93	.93
	Girls	60	6258	18340	24335	25433	25276	25655	25473	25625	22496	13641	6723	1907	275	53	13	221563	....	....	....	......		.93	
GRAND TOTALS	.....	108	12660	37078	49765	51554	51101	52157	51603	51956	46321	29728	15335	4302	702	96	43	454509							

Heavy lines denote ideal age spread for each grade. As the school census is taken near the end of the school year, the ideal age spread has been moved forward one year from that shown in former issues.

(B) URBAN SCHOOLS

		Under 5 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years	14 years	15 years	16 years	17 years	18 years	19 years and over	Totals	Totals by Grades
Kindergarten	Boys	21	3,960	3,342	220	......	......	......	......	......	......	......	......	......	......	......	......	7,543	14,624
	Girls	19	3,811	3,085	166	......	......	......	......	......	......	......	......	......	......	......	......	7,081	
Kindergarten-Primary	Boys	1	904	1,985	621	123	11	6	4	1	1	......	......	......	......	......	......	3,657	7,033
	Girls	1	826	1,956	494	82	10	2	4	1	......	......	......	......	......	......	......	3,376	
GRADE I	Boys	......	230	6,183	9,109	2,700	577	171	39	22	8	7	6	5	2	......	......	19,059	36,062
	Girls	......	228	6,225	8,237	1,933	251	68	23	17	13	2	3	3	......	......	......	17,003	
GRADE II	Boys	......	1	130	4,573	7,797	3,314	1,077	270	95	43	20	10	3	1	......	......	17,334	33,838
	Girls	......	2	175	5,147	7,598	2,670	636	185	53	19	14	2	2	1	......	......	16,504	
GRADE III	Boys	......	......	1	214	2,880	4,442	2,313	862	305	114	39	17	7	2	......	......	11,196	21,342
	Girls	......	......	......	291	3,174	4,280	1,614	537	156	55	27	9	3	......	......	......	10,146	
GRADE IV	Boys	......	......	......	16	1,313	3,734	3,320	1,751	761	296	85	44	3	2	......	......	11,325	22,067
	Girls	......	......	......	35	1,800	4,199	2,866	1,191	448	137	43	18	4	......	......	1	10,712	
GRADE V	Boys	......	......	......	......	63	2,282	5,672	4,263	2,596	1,249	571	140	29	7	1	......	16,873	33,652
	Girls	......	......	......	......	91	2,911	6,603	3,820	1,956	989	292	71	13	3	......	......	16,779	
GRADE VI	Boys	......	......	......	......	9	69	2,070	5,156	4,236	2,837	1,524	586	74	13	1	......	16,575	33,099
	Girls	......	......	......	......	14	141	2,803	5,774	3,959	2,266	1,218	293	50	5	1	......	16,524	
GRADE VII	Boys	......	......	......	......	......	8	133	2,041	4,760	4,160	2,936	1,609	307	32	4	......	15,990	31,791
	Girls	......	......	......	......	1	12	145	2,576	5,344	4,038	2,390	1,095	178	19	2	1	15,801	
GRADE VIII	Boys	......	......	......	......	......	......	8	140	1,888	4,536	3,866	2,671	895	126	6	3	14,139	28,862
	Girls	......	......	......	......	......	1	11	197	2,475	5,219	3,904	2,227	619	59	8	3	14,723	
GRADE IX	Boys	......	......	......	......	1	2	......	1	16	107	231	196	98	24	6	1	683	2,001
	Girls	......	......	......	......	......	......	......	1	26	208	385	440	190	54	11	3	1,318	
GRADE X	Boys	......	......	......	......	......	......	......	......	......	3	31	87	75	47	4	19	266	649
	Girls	......	......	......	......	......	......	......	......	......	4	51	157	171	......	......	......	383	
JR. AUXILIARY CLASSES	Boys	......	......	4	38	79	160	244	277	336	309	336	331	120	31	4	4	2,273	3,346
	Girls	......	......	4	8	51	90	130	163	186	138	143	94	41	12	11	2	1,073	
TOTALS BY SEXES	Boys	22	5,095	11,645	14,791	14,965	14,599	15,014	14,804	15,016	13,663	9,646	5,697	1,616	287	26	27	136,913	....
	Girls	20	4,867	11,445	14,378	14,744	14,595	14,878	14,471	14,621	13,086	8,469	4,409	1,274	153	33	10	131,453	....
GRAND TOTALS	....	42	9,962	23,090	29,169	29,709	29,194	29,892	29,275	29,637	26,749	18,115	10,106	2,890	440	59	37	268,366	....

(C) RURAL SCHOOLS

		Under 5 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years	14 years	15 years	16 years	17 years	18 years	19 years and over	Totals	Totals by Grades
Kindergarten	Boys	......	119	116	5	2	......	......	......	......	......	......	......	......	......	......	......	242	452
	Girls	......	101	107	2	......	......	......	......	......	......	......	......	......	......	......	......	210	
Kindergarten-Primary	Boys	3	312	784	483	168	60	21	14	10	6	......	......	......	......	......	......	1,861	3,561
	Girls	3	344	763	452	81	27	14	9	4	3	......	......	......	......	......	......	1,700	
GRADE I	Boys	23	867	5,898	6,470	2,566	857	310	163	78	47	20	8	2	2	2	......	17,313	32,234
	Girls	37	939	5,628	5,552	1,901	527	173	74	48	20	10	9	2	1	......	......	14,921	
GRADE II	Boys	......	9	283	3,265	5,057	2,477	1.003	365	179	90	32	10	5	......	......	......	12,775	23,711
	Girls	......	7	383	3,377	4,477	1,734	593	193	108	32	17	10	5	......	......	......	10,936	
GRADE III	Boys	......	......	9	379	2,435	3,490	1,926	887	370	81	60	23	3	1	......	......	9,664	18,473
	Girls	......	......	13	515	2,916	3,203	1,350	481	192	87	32	14	3	2	1	......	8,809	
GRADE IV	Boys	......	......	......	33	813	2,670	2,472	1,407	720	334	130	27	6	3	1	......	8,616	16,618
	Girls	......	......	......	57	1,169	2,972	2,023	1,173	401	165	51	12	5	4	......	......	8,032	
GRADE V	Boys	......	......	......	1	95	1,541	4,125	3,365	2,043	1,073	438	101	28	5	1	......	12,816	25,026
	Girls	......	......	......	1	125	1,999	4,408	2,968	1,379	1,017	228	69	13	3	......	......	12,210	
GRADE VI	Boys	......	......	......	......	5	106	1,436	3,478	3,077	1,982	863	306	44	8	......	......	11,305	22,069
	Girls	......	......	......	......	4	187	1,975	3,829	2,978	1,175	449	131	31	5	......	......	10,764	
GRADE VII	Boys	......	......	......	......	......	4	151	1,437	3,309	2,910	1,516	561	113	14	1	......	10,016	20,047
	Girls	......	......	......	......	......	6	202	1,935	3,693	2,624	1,136	361	61	12	1	......	10,031	
GRADE VIII	Boys	......	......	......	......	......	......	6	166	1,427	3,308	2,902	1,419	395	58	4	3	9,718	20,083
	Girls	......	......	......	......	......	3	13	302	2,089	3,840	2,597	1,177	305	36	2	1	10,365	
GRADE IX	Boys	......	......	......	......	......	......	......	8	50	240	327	231	86	15	1	......	958	2,380
	Girls	......	......	......	......	......	......	......	9	75	382	512	320	102	20	2	......	1,422	
GRADE X	Boys	......	......	......	......	......	......	......	......	2	31	92	127	80	27	6	......	365	873
	Girls	......	......	......	......	......	......	......	......	7	39	120	188	102	37	13	2	508	
JR. AUXILIARY CLASSES	Boys	......	......	3	3	15	21	38	36	50	60	61	72	17	7	1	......	384	586
	Girls	......	......	1	1	16	23	26	29	30	26	20	23	4	2	1	......	202	
TOTALS BY SEXES	Boys	26	1,307	7,093	10,639	11,156	11,226	11,488	11,326	11,315	10,162	6,441	2,915	779	140	17	3	96,033	....
	Girls	40	1,391	6,895	9,957	10,689	10,681	10,777	11,002	11,001	9,410	5,172	2,314	633	122	20	3	90,110	....
GRAND TOTALS	....	66	2,698	13,988	20,596	21 845	21,907	22,265	22,328	22,319	19,572	11,613	5,229	1,412	262	37	6	186,143	....

THE PUBLIC SCHOOLS

TABLE 12—NUMBER OF PUPILS IN REGULAR GRADES

Under Age, Normal Age, Over Age, May, 1938

(a) All Schools

Grade	Under Age					Normal Age	Over Age						
	4 years	3 years	2 years	1 year	Total Under Age		Total Over Age	1 year	2 years	3 years	4 years	5 years	Over 5 years
I......	......	......	60	2,264	2,324	62,402	3,570	2,212	722	299	165	88	84
II.....	......	......	19	971	990	51,486	5,073	3,309	1,013	435	184	83	49
III....	......	......	23	1,399	1,422	34,023	4,370	2,767	1,023	337	158	63	22
IV.....	......	......	141	5,095	5,236	29,778	3,701	2,330	932	309	101	18	11
V......	......	2	374	8,763	9,139	43,198	6,341	4,328	1,529	381	83	18	2
VI.....	......	32	503	8,284	8,819	40,747	5,602	4,054	1,316	199	31	2	......
VII....	1	30	631	7,989	8,651	38,816	4,371	3,626	659	77	8	1	......
VIII...	4	38	805	7,879	8,726	37,696	2,523	2,214	279	20	10	......	......
Totals..	5	102	2,556	42,644	45,307	338,146	35,551	24,840	7,473	2,057	740	273	168

(b) Urban Schools

Grade	Under Age					Normal Age	Over Age						
	4 years	3 years	2 years	1 year	Total Under Age		Total Over Age	1 year	2 years	3 years	4 years	5 years	Over 5 years
I......	......	......	......	458	458	34,387	1,217	828	239	62	39	21	28
II.....	......	......	3	305	308	31,099	2,431	1,713	455	148	62	34	19
III....	......	......	1	505	506	18,703	2,133	1,399	461	169	66	26	12
IV.....	......	......	51	3,113	3,164	17,061	1,842	1,209	433	128	62	7	3
V......	......	......	154	5,223	5,377	24,910	3,365	2,238	863	211	42	10	1
VI.....	......	23	210	4,873	5,106	24,338	3,765	2,742	879	124	18	2	......
VII....	1	20	278	4,617	4,916	23,628	3,247	2,704	485	51	6	1	......
VIII...	1	19	337	4,363	4,720	22,423	1,719	1,514	185	14	6	......	......
Totals..	2	62	1,034	23,457	24,555	196,439	19,719	14,347	4,000	907	301	101	63

(c) Rural Schools

Grade	Under Age					Normal Age	Over Age						
	4 years	3 years	2 years	1 year	Total Under Age		Total Over Age	1 year	2 years	3 years	4 years	5 years	Over 5 years
I......	......	......	60	1,806	1,866	28,015	2,353	1,384	483	237	126	67	56
II.....	......	......	16	666	682	20,387	2,642	1,596	558	287	122	49	30
III....	......	......	22	894	916	15,320	2,237	1,368	562	168	92	37	10
IV.....	......	......	90	1,982	2,072	12,717	1,859	1,121	499	181	39	11	8
V......	......	2	220	3,540	3,762	18,288	2,976	2,090	666	170	41	8	1
VI.....	......	9	293	3,411	3,713	16,519	1,837	1,312	437	75	13	......	......
VII....	......	10	353	3,372	3,735	15,188	1,124	922	174	26	2	......	......
VIII...	3	19	468	3,516	4,006	15,273	804	700	94	6	4	......	......
Totals..	3	40	1,522	19,187	20,752	141,707	15,832	10,493	3,473	1,150	439	172	105

THE PUBLIC SCHOOLS

TABLE 13—PERCENTAGE OF PUPILS IN REGULAR GRADES

Under Age, Normal Age, Over Age, May, 1938

(a) All Schools

Grade	Under Age					Normal Age	Over Age						
	4 years	3 years	2 years	1 year	Total Under Age		Total Over Age	1 year	2 years	3 years	4 years	5 years	Over 5 years
I......	......	......	.09	3.31	3.40	91.37	5.23	3.24	1.06	.44	.24	.13	.12
II.....	......	......	.03	1.69	1.72	89.46	8.82	5.75	1.76	.76	.32	.14	.09
III....	......	......	.06	3.51	3.57	85.45	10.98	6.95	2.57	.85	.40	.16	.05
IV.....	......	......	.36	13.16	13.52	76.91	9.57	6.03	2.41	.79	.26	.05	.03
V......	......	......	.64	14.93	15.57	73.62	10.81	7.38	2.61	.65	.14	.03	(.003)
VI.....	......	.06	.91	15.02	15.99	73.86	10.15	7.35	2.38	.36	.06	(.004)	......
VII....	(.002)	.06	1.22	15.41	16.69	74.88	8.43	6.99	1.27	.15	.02	(.002)	......
VIII...	.01	.08	1.64	16.10	17.83	77.02	5.15	4.52	.57	.04	.02	......	......
Average	(.001)	.02	.61	10.18	10.81	80.70	8.49	5.93	1.78	.49	.18	.07	.04

(b) Urban Schools

Grade	Under Age					Normal Age	Over Age						
	4 years	3 years	2 years	1 year	Total Under Age		Total Over Age	1 year	2 years	3 years	4 years	5 years	Over 5 years
I......	......	......	......	1.27	1.27	95.36	3.37	2.29	.66	.17	.11	.06	.08
II.....	......	......	.01	.89	.90	91.91	7.19	5.06	1.35	.44	.18	.10	.06
III....	......	......	(.005)	2.37	2.37	87.63	10.00	6.56	2.16	.79	.31	.12	.06
IV.....	......	......	.23	14.11	14.34	77.32	8.34	5.48	1.96	.58	.28	.03	.01
V......	......	......	.46	15.53	15.99	74.02	9.99	6.65	2.56	.63	.12	.03	(.003)
VI.....	......	.07	.63	14.72	15.42	73.21	11.37	8.28	2.66	.37	.05	.01	......
VII....	(.003)	.06	.88	14.52	15.46	74.32	10.22	8.51	1.53	.16	.02	(.003)	......
VIII...	(.003)	.07	1.17	15.12	16.36	77.69	5.95	5.24	.64	.05	.02	......	......
Average	(.008)	.03	.43	9.74	10.20	81.61	8.19	5.96	1.66	.38	.12	.04	.03

(c) Rural Schools

Grade	Under Age					Normal Age	Over Age						
	4 years	3 years	2 years	1 year	Total Under Age		Total Over Age	1 year	2 years	3 years	4 years	5 years	Over 5 years
I......	......	......	.19	5.60	5.79	86.91	7.30	4.29	1.50	.74	.39	.21	.17
II.....	......	......	.07	2.81	.288	85.98	11.14	6.73	2.35	1.21	.51	.21	.13
III....	......	......	.12	4.84	4.96	82.93	12.11	7.41	3.04	.91	.50	.20	.05
IV.....	......	......	.54	11.91	12.45	76.39	11.17	6.73	3.00	1.09	.23	.07	.05
V......	......	.01	.87	14.15	15.03	73.08	11.89	8.35	2.66	.68	.16	.03	.01
VI.....	......	.04	1.33	15.46	16.83	74.85	8.32	5.94	1.98	.34	.06	......	......
VII....	......	.05	1.76	16.82	18.63	75.76	5.61	4.60	.87	.13	.01	......	......
VIII...	.02	.09	2.33	17.51	19.95	76.05	4.00	3.48	.47	.03	.02	......	......
Average	(.002)	.02	.85	10.77	11.64	79.48	8.88	5.89	1.95	.64	.25	.10	.05

NOTE:—Figures in brackets are disregarded in totals.

THE PUBLIC SCHOOLS

TABLE 14—COMPARATIVE PUPIL STATISTICS

ONTARIO — SOUTH AFRICA — AUSTRALIA — UNITED STATES

Province or State	Rank *	Enrolment per Teacher	Attendance Efficiency	Compulsory School Age	AGE-GRADE ANALYSIS																			
					Average Age per Grade									Per cent. of Total Enrolment in each Grade								Acceleration and Retardation		
					I	II	III	IV	V	VI	VII	VIII	All	I	II	III	IV	V	VI	VII	VIII	Acl.	Nml.	Rtd.
ONTARIO:																								
Public Schools	10.0	28.6	91.1	8–14–16	7.4	8.7	9.7	10.2	11.3	12.2	13.1	14.0	10.0	16.7	13.3	7.4	10.5	14.1	13.5	12.8	11.7	11.4	79.5	9.1
SOUTH AFRICA:																								
Cape of Good Hope (B)	3.1	22.9	x	7–16 (A)	7.0	7.9	8.8	9.9	11.0	12.1	13.1	14.1	10.6	12.2	9.3	13.0	13.3	13.7	13.2	13.0	12.3	16.3	78.3	5.4
Transvaal	3.1	26.2	x	7–16 (A)	7.1	8.1	8.9	10.0	11.1	12.2	13.2	14.1	10.6	12.8	10.4	13.5	13.4	13.9	12.5	12.3	11.2	13.6	81.0	5.4
Orange Free State	.9	31.0	x	6–16 (A)	7.1	8.0	8.9	10.0	11.1	12.3	13.4	14.6	10.8	11.7	9.0	12.9	13.0	13.6	13.5	13.2	13.1	13.9	78.7	7.4
Natal (B)	.6	16.6	92.1	7–15 (A)	7.1	8.2	9.3	10.2	11.2	12.3	13.3	14.3	10.8	13.9	12.7	11.1	10.9	12.5	13.1	12.7	13.0	8.2	86.0	5.8
AUSTRALIA:																								
New South Wales	8.4	33.8	87.7	7–14	6.5	7.7	8.8	9.9	11.0	12.0	13.1	13.9	10.7	19.6	12.3	12.4	12.4	13.5	14.8	9.5	5.5	9.9	86.6	3.5
South Australia	1.6	27.2	92.4	6–14	6.6	8.1	9.9	10.3	11.4	12.4	13.2	14.1	10.2	15.6	14.8	13.9	14.0	14.2	13.8	11.8	1.9	5.8	90.2	4.0
UNITED STATES:																								
Pennsylvania	34.9	36.5	93.0	8–16	6.6	7.8	9.0	10.0	11.1	12.2	13.1	14.0	10.4	13.5	12.3	12.6	12.6	12.6	12.3	12.5	11.6	.4	84.2	15.4
Virginia (Whites)	8.6	28.7	90.0	7–15	7.5	8.8	9.8	10.9	11.9	12.7	13.8	14.7	10.8	17.9	13.2	13.0	12.9	12.5	11.4	10.4	8.7	7.6	72.9	19.5
CITY SYSTEMS:																								
Of Ontario	19.6	31.0	92.5	8–16	7.3	8.4	9.6	10.3	11.2	12.2	13.2	14.2	10.8	13.9	13.9	11.1	9.7	11.2	13.6	13.8	12.8	9.0	83.9	7.1
Of New York State	127.9	31.3	86.9	7–16	7.0	8.2	9.5	10.3	11.4	12.4	13.5	14.4	10.8	12.8	12.1	12.3	12.6	12.6	12.7	12.5	12.4	.9	90.3	8.8
City of New York	79.8	36.9	92.9	7–16	7.1	8.2	9.3	10.3	11.4	12.4	13.4	14.4	10.8	13.4	13.8	14.0	14.2	14.5	14.4	7.9	7.8	.6	93.3	6.1
City of Boston	9.5	41.2	93.0	7–16	6.5	7.7	8.7	9.8	10.9	12.0	13.0	14.0	10.4	14.0	12.0	11.6	12.2	12.5	12.8	12.5	12.4	2.1	92.4	5.5

NOTES:—1. Wherever possible, average age has been adjusted to correspond with Ontario School census date.
2. Ontario standard for Normal Age as shown on Public School Age-Grade Table has been applied in each case.

*Ranks. 1. For Provinces and States comparison is on basis of enrolment in Grades I to VIII. Ontario considered as 10.
2. For City Systems City of Toronto considered as 10.

(A) Limit is for European children. May leave school sooner under certain conditions.
(B) European children only.
x Data not available.

THE PUBLIC SCHOOLS

TABLE 15—EIGHT MEASURABLE EFFICIENCY TESTS APPLIED TO CITY SCHOOLS, 1937-38

Cities	1	2	3	4							5	6	7	8		
	May Enrolment per Class-room	Percentage of May Enrolment in Grades III and IV	Attendance Efficiency Percentage	Average Age for Each Grade (on May 31)							Percentage of May Enrolment, Grades I-VIII, securing H.S. Ent. Standing	Percentage of Teachers holding a First Class Certificate	Percentage of Teachers holding a University Degree	Cost of Education per Pupil-Day (cents)		
				Grade I	Grade II	Grades III and IV	Grade V	Grade VI	Grade VII	Grade VIII				Current	Capital	Total
Belleville	37.6	18.6	91.7	7.1	8.4	9.7	11.4	12.2	12.7	14.1	9.9	52.1	4.0	24.6	10.0	34.6
Brantford	35.8	16.4	92.8	6.4	8.6	9.8	11.1	12.1	13.0	14.0	10.8	42.8	6.7	30.5	4.8	35.3
Chatham	38.1	21.6	92.6	7.2	8.3	9.7	11.0	12.1	13.3	14.0	9.6	32.2	10.5	32.1	1.4	33.5
Fort William	35.9	16.3	94.6	7.5	8.5	9.8	11.0	12.5	13.0	14.1	12.3	51.0	4.0	30.8	10.2	41.0
Galt	38.1	18.5	95.8	7.2	8.4	9.8	11.0	12.1	13.0	13.8	11.6	10.6	8.0	25.4	1.9	27.3
Guelph	39.3	15.6	92.6	7.3	8.4	9.7	10.9	11.9	13.0	13.7	10.8	39.7	....	22.9	2.6	25.5
Hamilton	38.9	19.4	91.5	7.2	8.4	9.9	11.2	12.4	13.4	14.1	9.3	59.1	23.5	29.2	7.2	36.4
Kingston	42.1	18.7	90.9	7.7	8.8	9.8	11.2	12.2	13.1	14.0	11.5	38.6	44.4	29.3	6.0	35.3
Kitchener	38.3	16.0	94.3	7.4	8.3	9.5	10.5	11.7	12.7	13.7	9.7	37.6	....	29.1	7.7	36.8
London	38.0	18.1	93.5	7.3	8.5	9.8	11.0	12.1	13.1	13.8	12.4	57.5	.7	37.7	8.5	46.2
Niagara Falls	38.8	22.4	92.9	7.3	8.4	9.8	11.2	12.1	13.3	14.2	11.2	40.6	3.8	24.5	2.2	26.7
North Bay	32.0	21.8	93.9	7.3	8.4	9.8	11.2	12.0	13.0	14.0	11.5	57.8	....	30.9	9.0	39.9
Oshawa	43.5	16.0	93.7	7.6	8.8	10.0	11.2	11.6	13.2	14.1	10.0	33.7	20.7	22.0	8.0	30.0
Ottawa	38.3	15.0	95.6	7.3	8.5	9.8	10.8	12.0	13.1	14.2	11.9	58.7	37.1	48.6	10.1	58.7
Owen Sound	36.3	24.1	92.6	7.4	8.4	10.0	11.6	12.5	13.6	14.5	8.5	35.7	....	25.8	....	25.8
Peterborough	36.9	21.5	92.2	7.4	8.7	10.2	11.6	12.3	13.2	14.1	10.3	44.1	14.7	34.4	6.5	40.9
Port Arthur	34.1	19.7	98.8	8.0	8.9	10.0	11.1	12.1	13.2	14.3	11.1	69.9	13.7	33.1	11.9	45.0
St. Catharines	37.8	18.5	92.5	7.4	8.6	10.1	11.2	12.5	13.5	14.2	10.4	43.0	....	30.8	5.4	36.2
St. Thomas	32.0	23.6	93.1	7.2	8.4	9.8	11.5	12.5	13.0	14.0	8.6	61.8	....	28.7	5.5	34.2
Sarnia	35.2	14.4	93.3	7.0	8.3	9.3	10.6	11.8	12.8	13.7	9.9	42.0	10.3	31.9	5.5	37.4
Sault Ste. Marie	38.4	17.3	91.7	7.4	8.5	9.7	11.0	12.3	13.1	13.9	10.9	32.5	....	27.1	9.4	36.5
Stratford	35.4	14.7	94.8	7.3	8.3	9.6	10.6	11.6	12.7	13.7	13.4	32.3	....	29.6	8.2	37.8
Sudbury	43.1	22.4	91.2	7.4	8.0	9.9	11.6	12.2	12.9	14.2	11.3	44.4	....	26.2	20.5	48.7
Toronto	42.3	15.6	93.1	7.4	8.6	9.9	11.2	12.4	13.5	14.3	9.9	46.7	25.5	48.6	9.2	57.8
Welland	35.8	19.8	93.1	7.2	8.4	10.1	11.3	12.3	13.2	14.0	9.7	38.5	5.0	29.9	6.0	35.9
Windsor	38.9	22.6	92.9	7.4	8.4	9.9	11.3	12.4	13.3	14.2	11.2	41.7	16.9	33.1	8.9	42.0
Woodstock	36.9	19.4	92.3	7.6	8.6	9.9	11.1	12.0	12.7	13.4	13.4	47.4	....	24.1	4.2	28.3
Averages	39.7	17.5	92.8	7.3	8.5	9.9	11.1	12.3	13.3	14.2	10.4	47.6	9.2	38.4	8.5	46.9
*Ideal	41.0	16.0	100.0	6.9	8.1	9.3	10.5	11.7	12.9	14.1	8+	....	....	....	....	....

*As of the end of the school year.

Table 16—Promotion and Retardation in Cities, Large Towns and Certain Suburban Areas, for the School Year 1938-39—Percentages.

Cities	Kindergarten			Kindergarten-Primary			Grade I			Grade II			Grade III			Grade IV			Grade V			Grade VI			Grade VII			Grade VIII			Average		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Belleville	....	....	....	....	....	....	59	52	41	88	89	12	93	93	7	98	98	2	83	82	17	82	82	18	81	80	19	94	93	6	82	82	18
Brantford	....	....	....	96	96	4	86	85	14	93	92	7	92	92	8	93	92	7	59	41	41	88	88	12	87	86	13	86	85	14	90	89	10
Chatham	96	96	4	93	92	7	65	62	35	63	62	37	66	65	34	86	84	14	86	85	14	83	81	17	81	80	19	86	84	14	80	73	20
Fort William	95	95	5	100	100	....	80	78	20	95	95	5	86	94	14	91	91	9	92	91	8	94	94	6	93	93	7	91	91	9	92	91	8
Galt	....	....	....	94	94	6	91	91	9	88	87	12	92	92	8	97	97	3	92	92	8	95	95	5	93	92	7	96	96	4	93	92	7
Guelph	....	....	....	100	100	....	87	86	13	91	92	9	75	75	25	95	99	5	91	91	9	90	90	10	94	94	6	96	95	4	92	92	8
Hamilton	93	93	7	....	....	....	83	82	17	88	87	12	88	88	12	89	87	11	84	82	16	84	83	16	85	83	15	86	86	14	86	86	14
Kingston	98	99	2	....	....	....	86	84	14	87	86	13	89	88	11	89	89	11	88	88	12	90	90	10	89	89	11	96	96	4	90	90	10
Kitchener	90	89	10	87	86	13	88	88	12	90	90	10	97	98	3	94	94	6	88	87	12	87	87	13	85	83	15	81	80	19	88	87	12
London	96	96	4	83	81	17	87	86	13	87	87	13	90	89	10	91	92	9	86	85	14	88	88	12	90	89	10	88	88	12	89	89	11
Niagara Falls	....	....	....	....	....	....	87	88	13	89	90	11	91	91	9	88	88	12	88	90	12	94	94	6	93	94	7	90	89	10	90	91	10
North Bay	....	....	....	....	....	....	87	89	13	89	90	11	82	84	18	94	94	6	85	92	15	90	91	10	88	87	12	95	95	5	89	90	11
Oshawa	....	....	....	....	....	....	84	83	16	89	89	11	87	87	13	94	94	6	89	83	11	87	85	13	89	88	11	85	83	15	88	87	12
Ottawa	84	83	16	....	....	....	85	84	15	88	87	13	97	99	3	97	88	3	90	89	10	90	91	10	89	88	11	90	90	10	90	89	10
Owen Sound	99	99	1	....	....	....	83	84	17	89	89	11	93	92	7	91	90	9	89	88	11	86	85	14	92	92	8	92	92	8	91	90	9
Peterborough	....	....	....	98	98	2	83	82	17	87	87	13	86	86	14	94	95	6	89	89	11	88	88	12	84	82	16	88	88	12	88	88	12
Port Arthur	....	....	....	92	91	8	76	78	24	88	88	12	91	91	9	93	95	7	90	92	10	91	92	9	92	92	8	87	88	13	90	90	10
St. Catharines	....	....	....	94	94	6	82	80	18	85	84	15	90	91	10	92	92	8	89	87	11	92	92	8	87	87	13	97	97	3	89	89	11
St. Thomas	....	....	....	....	....	....	84	80	16	92	94	8	85	84	15	88	88	12	92	92	8	92	92	8	82	80	18	93	93	7	88	88	12
Sarnia	....	....	....	....	....	....	90	89	10	90	90	10	88	88	12	90	91	10	85	80	15	76	79	24	79	76	21	81	87	19	85	84	15
Sault Ste. Marie	....	....	....	99	99	1	86	87	14	87	86	13	87	87	13	93	92	7	83	80	17	86	86	14	86	86	14	85	86	15	88	88	12
Stratford	96	96	4	....	....	....	89	88	11	95	95	5	94	94	6	93	94	7	94	94	6	90	86	10	91	90	9	87	86	13	92	92	8
Sudbury	....	....	....	....	....	....	95	95	5	96	95	4	98	98	2	96	96	4	98	98	2	98	98	2	99	99	1	99	99	1	97	97	3
Toronto	83	81	17	....	....	....	83	81	17	92	92	8	93	93	7	93	92	7	88	87	12	88	88	12	86	85	14	86	85	14	87	87	13
Welland	92	92	8	94	94	6	84	84	16	92	90	8	94	93	6	93	93	7	90	90	10	92	92	8	89	88	11	89	89	11	90	90	10
Windsor	....	....	....	83	82	17	85	83	15	86	86	14	87	87	13	96	96	4	92	92	8	92	91	8	91	91	9	88	88	12	89	89	11
Woodstock	97	97	3	....	....	....	93	94	7	94	96	6	96	96	4	92	92	8	92	92	8	90	89	10	94	94	6	93	93	7	94	94	6
Averages	87	86	13	92	92	8	83	83	17	90	90	10	91	91	9	93	93	7	88	87	12	88	88	12	87	86	13	88	87	12	88	88	12
Towns																																	
Barrie	....	....	....	....	....	....	81	78	19	90	90	10	94	94	6	95	93	5	93	93	7	93	93	7	90	89	10	82	80	18	90	90	10
Brockville	....	....	....	....	....	....	86	84	14	92	91	8	93	93	7	91	90	9	88	88	12	89	88	11	85	85	15	89	89	11	89	89	11
Cornwall	....	....	....	86	85	14	76	76	24	85	85	15	88	88	12	96	96	4	92	93	8	98	98	2	96	96	4	97	96	3	91	91	9
Kenora	....	....	....	....	....	....	78	58	22	86	83	14	80	80	20	85	84	15	87	71	13	85	73	15	93	80	7	81	74	19	84	74	16
Kirkland Lake	....	....	....	....	....	....	79	78	21	92	92	8	96	96	4	97	96	3	84	85	16	90	90	10	88	88	12	85	84	15	88	88	12
Lindsay*	....	....	....	....	....	....	77	....	23	84	....	16	91	....	9	89	....	11	87	....	13	86	....	14	94	....	6	93	....	7	87	....	13
Midland	....	....	....	....	....	....	81	77	19	88	87	12	87	86	13	92	95	8	95	96	5	89	88	11	82	79	18	87	84	13	87	86	13
Mimico	....	....	....	100	100	....	92	91	8	94	94	6	88	88	12	97	97	3	90	89	10	89	88	11	90	91	10	92	91	8	92	91	8
New Toronto	....	....	....	....	....	....	82	79	18	85	84	15	84	84	16	83	82	17	84	83	16	83	82	17	82	81	18	79	79	21	83	82	17
Orillia	....	....	....	....	....	....	80	79	20	90	85	10	95	90	5	90	86	10	88	86	12	94	95	6	87	82	13	87	86	13	89	89	11
Pembroke	91	90	9	....	....	....	82	80	18	98	98	2	99	99	1	95	95	5	94	95	6	92	91	8	98	98	2	86	85	14	92	92	8
Port Colborne	....	....	....	90	90	10	92	93	8	84	84	16	100	100	....	96	95	4	78	75	22	88	87	12	84	83	16	91	92	9	88	87	12
Preston	....	....	....	100	100	....	93	92	7	96	97	4	94	94	6	89	89	11	88	86	12	99	99	1	94	94	6	91	90	9	94	94	6
Smith's Falls	....	....	....	82	82	18	95	92	5	95	84	5	91	90	9	89	87	11	93	95	7	93	93	7	87	87	13	95	95	5	90	90	10
Timmins	....	....	....	95	95	5	93	92	7	84	89	16	93	93	7	90	90	10	91	91	9	92	92	8	92	91	8	92	92	8	92	91	8
Trenton	....	....	....	....	....	....	61	52	39	73	70	27	87	87	13	89	88	11	80	83	20	84	85	16	86	87	14	94	93	6	79	79	21
Waterloo	....	....	....	100	100	....	90	90	10	91	95	9	97	97	3	91	90	9	89	88	11	95	94	5	92	92	8	91	90	9	92	93	8
Suburban Schools																																	
York Twp.	96	96	4	97	97	3	89	82	11	94	89	6	95	92	5	94	91	6	93	88	7	93	89	7	94	94	6	96	89	4	93	94	7
York East Twp.	....	....	....	....	....	....	91	90	9	97	97	3	96	95	4	95	95	5	93	92	7	96	95	4	96	95	4	89	89	11	94	93	6
Averages	95	96	5	96	95	4	85	85	15	82	92	18	93	93	7	93	93	7	90	90	10	92	92	8	92	93	8	91	90	9	..	..	..

(A) Percentage promoted in each grade. (B) Percentage in grade one year or less who were promoted in one year. (C) Percentage not promoted.

*Data for B not available.

REASONS FOR NON-PROMOTION—Percentages

Cities	Less than regular time in Grade	Lack of ability in academic lines	Ill-health (a) affecting attendance	Ill-health (b) not affecting attendance	Irregular or interrupted attendance for reasons other than ill-health	Adverse home conditions	Lack of application	Physical Defects					Previous Promotion premature	Too frequent transfers	Foreign	Other minor causes
								Sight	Hearing	Speech	Deformity	Other causes				
Belleville	23	41	9	1	2	2	13	.7	...	.3	...	1	5	2	...	...
Brantford	1	57	5	1	1	4	18	1	.3	.7	...	...	8	1	1	1
Chatham	37	29	7	1	3	3	11	.5	.2	.3	...	...	3	2	1	2
Fort William	5	44	3	1	1	2	17	.3	1	...	.3	...	20	.4	4	1
Galt	1	53	3	3	7	1	18	1	...	1	...	...	10	1	1	...
Guelph	3	43	8	1	7	5	14	.5	...	3	...	.5	10	3	.5	1.5
Hamilton	4	45	8	1	4	3	18	1	.5	.5	...	1	8	3	1	2
Kingston	3	53	10	1	3	7	9	.4	1	.2	...	3	6	2	.4	1
Kitchener	1	55	3	1	1	2	21	.4	...	.8	.2	...	11	1	1	1.6
London	2	52	10	1	4	2	11	.2	.2	.8	...	.6	11	3	.4	1.8
Niagara Falls	18	39	6	2	3	6	10	...	1	1	...	2	11.5	...	.4	.1
North Bay	1	58	3	1	6	4	9	1	...	1	...	...	12	3	1	...
Oshawa	.2	47	2	2	2	6	23	.5	...	1	...	1.6	6.7	1	7	...
Ottawa	13.5	48	8	1	4	3	10	.7	.3	.2	...	1	6	.6	.7	3
Owen Sound	7	49	7	1	7	5	11	1	...	.5	...	1	8	.5	...	...
Peterborough	1.5	53	8	2	3	4	17	...	...	.9	.3	.3	6	3	...	1
Port Arthur	63	63	5.8	.8	2	.4	12	.4	...	.4	.4	.4	12	.4	2	...
St. Catharines	1	64	3	1	6	1	9	...	.3	1	...	...	9	2	2.7	...
St. Thomas	1	51	15	.5	4	8	8	2	.5	.5	...	...	6	1.5	...	2
Sarnia	.6	47	6	2	3	1	14	1.9	.3	.3	...	.3	20	2	.3	1.3
Sault Ste. Marie	1	45	6	1	2	2	18	1.5	.3	1	...	.2	15	1	5	1
Stratford	3	50	15	2	6	5	4	1	...	1	...	1	5	7	...	...
Sudbury	2	53	7	5	3	...	17	...	2	...	...	...	4	...	4	3
Toronto	16	40	10	1	5	3	13	.4	.3	.9	.1	.5	6	2	1	2
Welland	5	42	9	...	3	5	23	...	1	...	...	1	3	...	5	3
Windsor	26	33	4	1.4	4	1	12	1	.2	1	.2	.5	11	.7	2	2
Woodstock	...	57	12	3	3	6	10	...	...	...	...	...	7	2	...	...
Averages	11.6	43.4	8.2	1.4	4.1	2.7	13.5	.5	.13	.7	.1	.6	7.9	1.8	1.4	1.8
Towns																
Barrie	...	47	9	...	4	7	16	1	...	2	...	...	11	3	...	...
Brockville	2	40	8	1	5	5	17	3	...	1	...	...	5	1	...	12
Cornwall	13	33	15	3	...	11	15	...	1	1	...	...	5	...	...	3
Kenora	15	45	6	1	1	2	19	...	1	2	1	...	7	...	...	...
Kirkland Lake	5	51	8	1	2	5	8	.3	...	1	1	.7	10	2	3	2
Lindsay	2	73	3	...	1	4	5	...	...	3	...	1	2	6	...	...
Midland	1	56	4	2	3	2	25	1	...	2	...	...	4	...	...	...
Mimico	8	37	16	...	3	...	28	...	...	1	...	...	7	...	...	...
New Toronto	12	41	10	.5	1.5	1.5	16	1	...	.5	...	...	13	1.5	.5	1
Orillia	1	49	6	1	3	2	15	1	1	2	...	3	3	8	...	5
Pembroke	17	49	2	...	3	1	17	...	...	...	...	...	7	4	...	...
Port Colborne	1	60	3	.5	9	3	16	.5	...	...	...	...	6	...	1	...
Preston	3	55	8	...	...	...	13	...	3	8	...	...	8	2	...	...
Smith's Falls	...	37	21	1	6	8	17	...	...	...	...	...	9	1	...	...
Timmins	9	40	4	...	7	9	14	.5	...	.5	...	...	4	3	9	...
Trenton	16	43	3	1	3	4	13	...	1	3	1	1	7	4	...	...
Waterloo	...	67	1	...	...	6	23	...	...	1	...	...	...	2	...	...
Suburban Schools																
York Twp.	9	23	12	2	6	5	20.5	.5	.5	3	.5	3	8	3	1	3
York East Twp.	5	36	18	2	5.1	2	12	.3	.6	2	...	1	11	2	1	2
Averages	7.1	42.0	9.1	1.1	4.0	4.2	16.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

THE PUBLIC SCHOOLS

TABLE 17—TEACHERS' SALARIES,† 1937-38

Highest, Lowest, Average

Rural Schools*	Male				Female			
	Highest	Lowest	Average	Increase in Average Over Last Year	Highest	Lowest	Average	Increase in Average Over Last Year
In Counties	$	$	$	$	$	$	$	$
Addington	900	600	707	41	900	500	681	20
Brant	1,260	550	806	9	1,000	550	725	18
Bruce	1,125	525	692	55	750	500	630	13
Carleton	2,000	500	876	−7	1,260	500	702	23
Dufferin	850	550	700	38	800	550	632	18
Dundas	1,050	550	704	13	875	515	628	11
Durham	1,000	600	715	30	1,100	600	676	36
Elgin	1,200	500	731	62	900	500	648	32
Essex	1,430	600	793	48	1,400	500	739	39
Frontenac	1,100	500	705	24	950	500	628	21
Glengarry	900	600	698	20	800	550	649	38
Grenville	750	500	605	28	1,000	500	614	23
Grey	1,000	550	720	71	1,000	500	625	33
Haldimand	900	650	734	65	900	500	668	26
Haliburton	950	500	680	54	900	500	632	52
Halton	1,250	600	767	39	1,200	550	740	17
Hastings	1,575	500	746	17	1,200	500	651	14
Huron	1,125	525	689	48	1,050	500	630	34
Kent	1,000	618	778	15	1,000	550	709	46
Lambton	1,250	500	673	22	1,080	500	643	49
Lanark	850	500	647	38	700	500	584	16
Leeds	850	500	679	51	900	500	621	81
Lennox	950	500	634	50	1,000	500	607	35
Lincoln	1,550	525	1,000	16	1,305	550	797	40
Middlesex	1,600	575	733	60	1,100	500	657	24
Norfolk	1,050	550	739	55	1,200	500	674	43
Northumberland	1,025	577	715	46	825	515	657	29
Ontario	1,200	550	765	41	1,100	500	685	28
Oxford	1,260	500	808	44	925	500	674	24
Peel	1,400	550	885	24	1,260	500	767	12
Perth	1,050	560	702	22	900	500	659	44
Peterborough	1,150	550	714	11	850	500	645	35
Prescott	800	750	775	0	950	500	633	20
Prince Edward	1,100	525	711	36	800	500	613	13
Renfrew	925	500	696	62	800	500	604	14
Russell	1,000	600	798	48	800	500	658	21
Simcoe	1,800	600	761	2	1,400	500	679	14
Stormont	1,100	550	783	32	1,250	500	655	30
Victoria	1,250	500	687	34	900	500	626	−1
Waterloo	1,230	600	884	40	1,000	575	717	25
Welland	1,750	775	1,125	106	1,200	500	796	20
Wellington	1,775	500	693	26	1,035	550	658	26
Wentworth	1,600	600	941	52	1,150	500	752	1
York	2,000	600	931	3	1,350	550	783	30
Averages	2,000	500	754	35	1,400	500	666	27
In Districts								
Algoma	1,100	500	779	12	1,100	400	663	2
Cochrane	1,500	600	932	26	1,200	500	784	−4
Kenora	1,500	600	980	−53	1,200	500	798	−4
Manitoulin	950	600	729	22	1,000	550	678	19
Muskoka	1,300	600	801	65	1,008	500	703	32
Nipissing	1,100	650	759	34	900	500	706	13
Parry Sound	1,500	525	812	27	1,000	550	693	40
Rainy River	1,100	618	796	19	1,500	500	783	19
Sudbury	1,800	500	944	−19	1,150	500	775	15
Temiskaming	1,800	600	895	52	1,500	500	738	16
Thunder Bay	1,800	600	891	−18	1,200	600	808	21
Averages	1,800	500	856	14	1,500	400	732	14
Averages for Counties and Districts	2,000	500	778	33	1,500	400	675	25
Increase for the year	....	....	33	....	....	....	25	....
Large fully-graded rural schools	3,500	800	1,436	7	2,500	700	1,151	21

†All regular full-time teachers.

*Exclusive of large suburban and semi-urban schools.

— Decrease.

THE PUBLIC SCHOOLS

TABLE 17—TEACHERS' SALARIES,† 1937-38

Highest, Lowest, Average

City Schools	Male					Female		
	Highest	Lowest	Average			Highest	Lowest	Average
			All	Principals	Assistants			
In Counties	$	$	$	$	$	$	$	$
Belleville	2,200	800	1,515	2,175	1,222	1,300	800	1,079
Brantford	2,500	1,150	1,919	2,215	1,425	1,575	1,000	1,360
Chatham	2,517	975	1,627	2,443	1,445	2,422	975	1,327
Galt	1,900	1,000	1,595	1,862	1,443	1,300	1,025	1,174
Guelph	2,300	900	1,438	1,833	1,100	1,300	800	1,129
Hamilton	3,270	1,072	1,928	2,777	1,194	1,901	900	1,319
Kingston	2,400	1,000	1,920	2,250	1,425	1,650	800	1,277
Kitchener	2,500	900	1,614	2,171	1,408	1,550	800	1,207
London	2,475	1,050	1,927	2,478	1,637	2,100	700	1,295
Niagara Falls	2,167	850	1,495	1,983	1,089	2,049	750	1,189
Oshawa	2,465	1,025	1,572	2,122	1,322	1,640	750	1,176
Ottawa	3,800	1,300	2,347	3,360	2,069	3,600	800	1,803
Owen Sound	2,150	750	1,600	1,960	1,343	1,270	772	1,073
Peterborough	2,700	945	2,053	2,625	1,710	1,530	700	1,406
St. Catharines	2,525	900	1,922	2,359	1,604	1,675	800	1,258
St. Thomas	2,150	750	1,498	1,975	1,180	1,400	800	1,119
Sarnia	2,500	1,150	1,855	2,280	1,600	1,700	900	1,317
Stratford	2,185	800	1,606	1,914	1,335	1,300	800	1,201
Toronto	3,900	1,600	2,633	3,567	2,461	3,700	970	1,861
Welland	1,800	1,000	1,485	1,800	1,170	1,400	1,000	1,251
Windsor	3,200	935	1,734	2,763	1,403	2,200	880	1,389
Woodstock	2,275	1,000	1,453	1,585	1,287	1,200	800	1,006
Averages	3,900	750	2,251	2,796	2,066	3,700	700	1,566
In Districts								
Fort William	2,682	1,021	1,856	2,584	1,468	1,615	633	1,334
North Bay	2,200	1,000	1,673	2,068	1,277	1,300	880	1,143
Port Arthur	2,700	1,140	1,665	2,024	1,306	1,615	1,000	1,389
Sault Ste Marie	2,250	950	1,544	1,891	1,154	1,407	600	1,239
Sudbury	2,420	900	1,901	2,222	1,100	1,430	990	1,180
Averages	2,700	900	1,721	2,098	1,324	1,615	600	1,276
All Cities	3,900	750	2,217	2,722	2,032	3,700	600	1,546
Towns	3,500	600	1,619	1,719	1,526	2,200	600	982
Villages	5,000*	650	1,218	1,220	1,214	3,050	500	858
All Urban Schools	5,000	600	1,982	2,140	1,897	3,700	500	1,367
All Schools (Rural and Urban)	5,000	500	1,413	....	....	3,700	500	1,049
Increase for Year	....	....	46	....	....	....	100	8

†All regular full-time teachers.

*Forest Hill Village

Salary Range	Rural Schools							Urban Schools									All Schools				
	Ungraded and Partly Graded		Fully Graded		Totals	Group Totals	Group Percentages	Cities		Towns		Villages		Totals	Group Totals	Group Percentages	Male	Female	Totals	Group Totals	Group Percentages
	Male	Female	Male	Female				Male	Female	Male	Female	Male	Female								
$5,000	......	......	......	......	......	10	.14	......	......	......	......	*1	......	1	526	7.24	1	......	1	536	3.70
$3,900	......	......	......	......	......			1	......	......	......	......	......	1			1	......	1		
$3,800	......	......	......	......	......			3	......	......	......	......	......	3			3	......	3		
$3,700	......	......	......	......	......			51	2	......	......	......	......	53			51	2	53		
$3,500-$3,699	......	......	1	......	1			18	2	1	......	......	......	21			20	2	22		
$3,300-$3,499	......	......	......	......	......			18	1	......	......	......	......	19			18	1	19		
$3,100-$3,299	......	......	1	......	1			28	3	1	......	*2	......	34			32	3	35		
$2,900-$3,099	......	......	1	......	1			90	3	1	......	......	*1	95			92	4	96		
$2,700-$2,899	......	......	4	......	4			129	7	2	......	......	......	138			135	7	142		
$2,500-$2,699	......	......	2	1	3			147	6	6	......	*2	......	161			157	7	164		
$2,400-$2,499	......	......	4	......	4	36	.51	58	18	4	......	......	......	80	1,304	17.96	66	18	84	1,340	9.25
$2,300-$2,399	......	......	4	......	4			36	62	3	......	......	......	101			43	62	105		
$2,200-$2,299	......	1	3	1	5			43	718	5	2	2	1	771			53	723	776		
$2,100-$2,199	1	......	6	1	8			58	167	9	......	3	......	237			77	168	245		
$2,000-$2,099	4	......	11	......	15			35	65	13	......	2	......	115			65	65	130		
$1,900-$1,999	......	......	3	......	3	103	1.42	37	70	17	......	......	......	124	1,231	16.95	57	70	127	1,334	9.20
$1,800-$1,899	8	......	6	1	15			67	120	19	......	3	2	211			103	123	226		
$1,700-$1,799	4	......	11	......	15			44	196	16	1	8	......	265			83	197	280		
$1,600-$1,699	6	1	10	2	19			38	125	24	7	5	......	199			83	135	218		
$1,500-$1,599	15	3	10	23	51			33	345	22	13	8	11	432			88	395	483		
$1,400-$1,499	14	4	18	70	106	941	13.01	33	353	14	19	10	8	437	2,442	33.63	89	454	543	3,383	23.34
$1,300-$1,399	15	10	17	91	133			26	313	8	27	14	3	391			80	444	524		
$1,200-$1,299	38	26	20	113	197			33	266	24	65	26	8	422			141	478	619		
$1,100-$1,199	40	28	32	79	179			36	286	17	130	6	10	485			131	533	664		
$1,001-$1,099	19	24	13	69	125			40	214	19	115	9	8	405			100	430	530		
$1,000	66	79	21	35	201			17	109	23	119	14	20	302			141	362	503		
$901-$999	36	50	5	37	128	435	6.01	11	155	17	202	9	40	434	745	10.26	78	484	562	1,180	8.14
$900	96	151	9	51	307			15	101	17	114	9	55	311			146	472	618		
$851-$899	7	13	......	4	24	1,248	17.25	1	57	8	45	4	18	133	795	10.95	20	137	157	2,043	14.10
$850	58	85	7	24	174			5	28	19	84	15	23	174			104	244	348		
$801-$849	19	36	......	2	57			......	12	8	54	......	7	81			27	111	138		
$800	153	351	3	9	516			5	49	20	78	20	65	237			201	552	753		
$751-$799	21	37	......	......	58			......	9	1	22	1	23	56			23	91	114		
$750	110	298	......	11	419			2	9	6	53	5	39	114			123	410	533		
$701-$749	31	72	......	1	104	1,044	14.43	......	3	1	17	2	4	27	118	1.63	34	97	131	1,162	8.01
$700	215	722	......	3	940			......	3	8	38	5	37	91			228	803	1,031		
$651-699	32	124	......	......	156	2,754	38.08	......	2	......	8	1	9	20	92	1.27	33	143	176	2,846	19.64
$650	111	526	......	......	637			......	1	1	13	1	15	31			113	555	668		
$601-$649	47	154	......	......	201			......	4	......	6	......	5	15			47	169	216		
$600	277	1,483	......	......	1,760			......	1	1	3	......	21	26			278	1,508	1,786		
$551-$599	9	78	......	......	87	662	9.15	......	......	......	......	......	......	......	8	.11	9	78	87	670	4.62
$550	42	287	......	......	329			......	......	......	......	......	4	4			42	291	333		
$501-$549	8	25	......	......	33			......	......	......	......	......	2	2			8	27	35		
$500	23	188	......	......	211			......	......	......	......	......	2	2			23	190	213		
Below $500	......	2	......	......	2			......	......	......	......	......	......	......			......	2	2		
Totals	1,525	4,858	222	628	7,233	......	......	1,158	3,885	355	1,235	187	441	7,261	......	......	3,447	11,047	14,494	......	......

*In Toronto Suburban Area.

THE PUBLIC SCHOOLS

TABLE 19—TREND IN THE LOWER SALARY RANGE OF RURAL TEACHERS

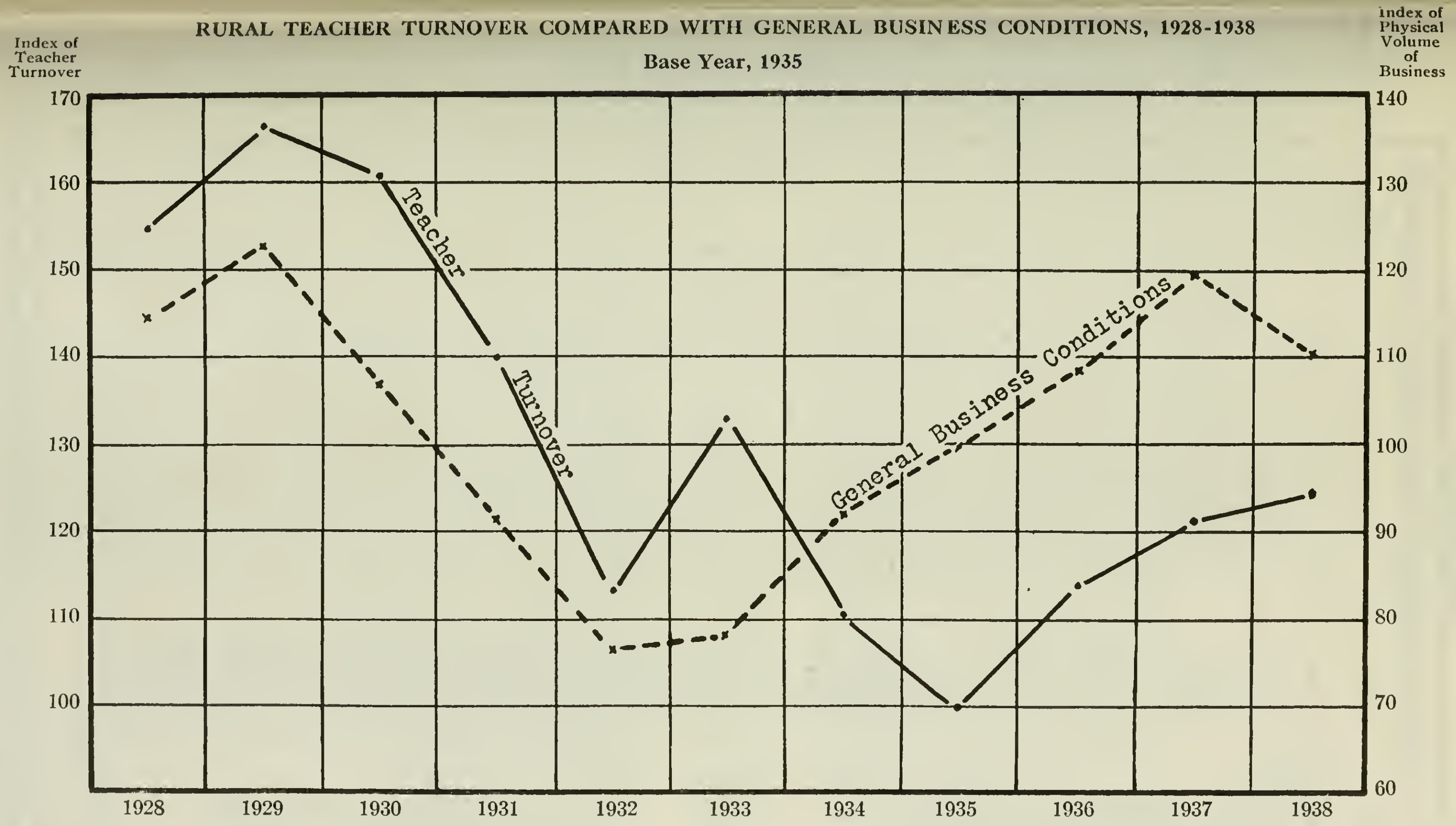
Salary	Below $500		$500			$501–$549			$550–$599			$600–$649			$650–$699			$700–$749			$750–$799			$800		
Maximum Daily Earnings*	Below $1.67		$1.67			$1.83			$2.00			$2.17			$2.33			$2.50			$2.67			$2.67		
Year	(a)	(b)	(a)	(b)	(c)	(a)	(b)	(c)	(a)	(b)	(c)	(a)	(b)	(c)	(a)	(b)	(c)	(a)	(b)	(c)	(a)	(b)	(c)	(a)	(b)	(c)
1933-34........	221	3.10	531	7.46	10.56	37	.52	11.08	330	4.64	15.72	1,231	17.29	33.01	568	7.98	40.99	1,098	15.43	56.42	524	7.36	63.78	706	9.92	73.70
1934-35........	224	3.11	631	8.77	11.88	74	1.03	12.91	537	7.46	20.37	1,390	19.32	39.69	659	9.16	48.85	1,069	14.86	63.71	456	6.34	70.05	556	7.73	77.78
1935-36........	6	.08	907	12.52	12.60	92	1.27	13.87	682	9.42	23.29	1,473	20.34	43.63	640	8.84	52.47	934	12.90	65.37	411	5.67	1.03	491	6.78	77.81
1936-37........	5	.07	767	10.61	10.68	100	1.38	12.06	782	10.82	22.88	1,489	20.59	43.47	688	9.52	52.99	875	12.10	65.09	432	5.98	71.07	484	6.69	77.76
1937-38........	3	.04	210	2.89	2.93	34	.47	3.40	417	5.74	9.14	1,679	23.13	32.27	795	10.95	43.22	1,047	14.42	57.64	484	6.68	64.32	518	3.71	71.45
1938-39........	0	.00	28	.39	.39	6	.09	.48	68	.94	1.42	1,069	14.79	16.21	1,014	14.44	30.65	1,642	22.71	53.36	659	9.11	62.47	637	8.81	71.28

(a) Number of Teachers in this Salary Group. (b) Percentage this Group is of Total Rural Teachers. (c) Cumulative Percentage of Total Rural Teachers.

*On the basis of a 300 day working year

RURAL TEACHER TURNOVER COMPARED WITH GENERAL BUSINESS CONDITIONS, 1928-1938

Base Year, 1935



Index of Physical Volume of Business is from Monthly Bulletin of Dominion Bureau of Statistics.
Rural Teacher Turnover is the percentage of rural teachers who changed positions at the end of each school year.
The high in 1933 is due to an enforced second year Normal course.

THE PUBLIC SCHOOLS

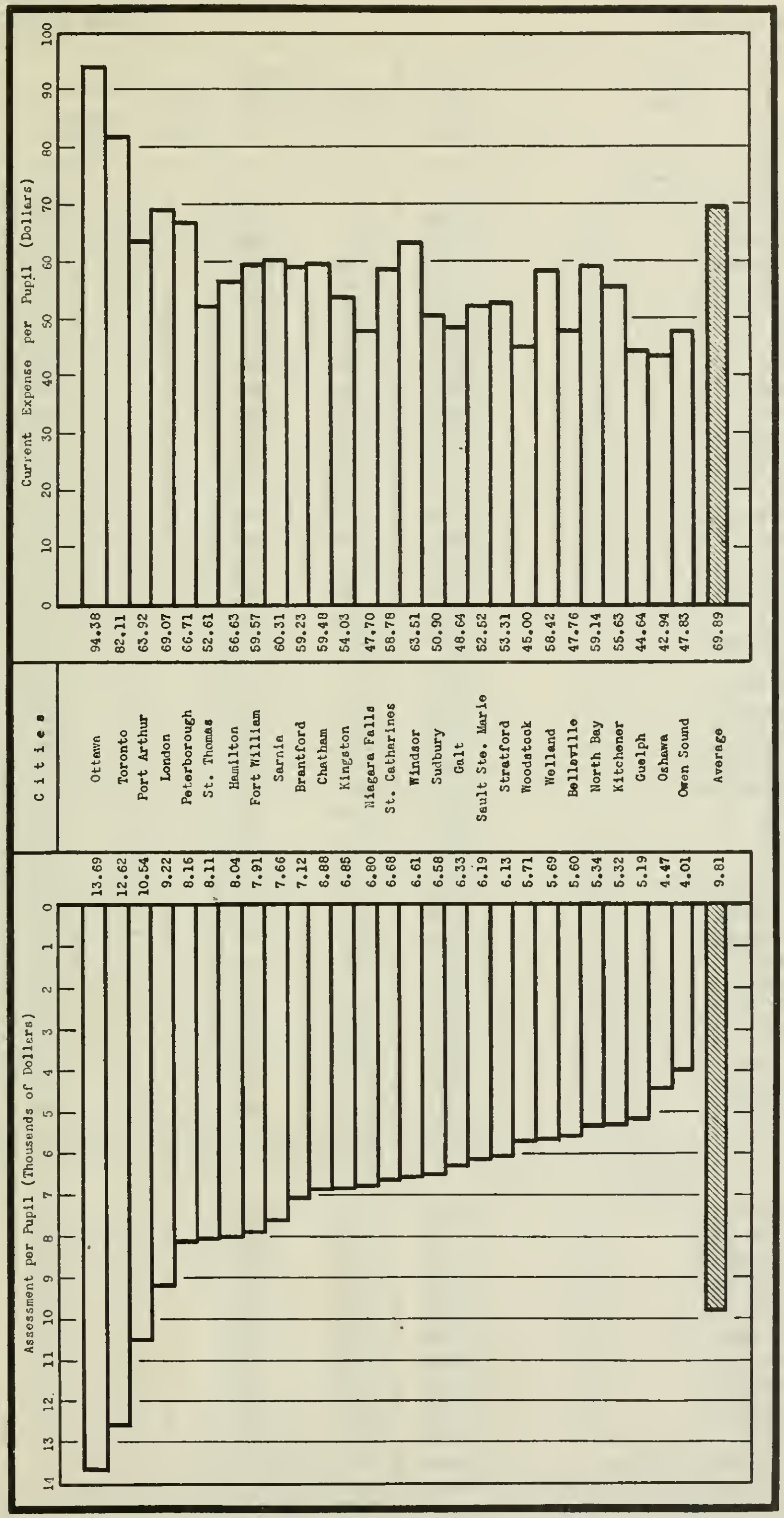
Table 20—Percentage Teacher Turnover in Rural Schools

Group	County or District	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	10 year* Average
Metropolitan Area:	1 York	18.5	17.7	13.4	9.1	12.1	10.3	9.6	11.3	11.7	12.4	12.6
Toronto-Hamilton-Niagara Area:	2 Welland	34.2	29.5	34.0	19.0	19.5	17.1	13.7	17.5	17.8	17.3	22.8
	3 Wentworth	31.9	31.3	33.3	26.8	21.5	12.3	18.7	12.9	18.3	18.7	23.1
	4 Lincoln	27.7	37.9	30.9	20.0	16.2	23.5	18.1	21.6	16.5	25.2	24.8
	5 Brant	31.2	36.3	25.0	21.2	41.8	16.5	16.5	17.7	19.0	35.4	26.2
	6 Peel	32.0	31.1	33.3	17.0	34.3	19.6	18.3	23.3	23.1	29.0	26.2
	7 Halton	40.0	24.6	29.8	19.4	34.3	17.1	20.0	22.9	22.9	21.4	26.5
Lower Average Group:	8 Middlesex	27.9	36.8	27.6	24.6	28.8	20.9	23.2	26.7	28.0	29.0	27.6
	9 Stormont	37.2	29.1	27.9	25.6	29.4	27.1	12.7	23.3	28.9	34.1	27.8
	10 Glengarry	35.5	30.0	27.5	20.0	33.8	26.6	20.3	21.5	32.0	23.0	27.8
	11 Ontario	40.7	36.0	34.9	17.8	26.7	28.8	24.9	24.6	20.4	23.5	27.9
	12 Dundas	27.2	32.1	21.0	35.4	35.0	19.7	24.7	24.7	22.2	23.8	28.1
	13 Northumberl'd.	44.4	32.2	29.6	27.0	27.0	21.7	18.3	22.5	25.2	19.1	28.2
	14 Carleton	37.2	33.1	31.1	26.4	27.6	21.0	26.7	22.1	25.3	26.9	28.7
	15 Durham	40.0	35.0	28.0	30.0	34.0	24.4	18.0	29.0	25.0	22.7	29.6
Average Group:	16 Elgin	38.7	26.8	28.4	27.4	27.4	29.0	24.6	26.6	29.6	25.6	30.0
	17 Oxford	32.0	37.7	31.8	26.9	29.4	23.1	22.3	26.2	36.9	28.0	30.2
	18 Huron	48.5	33.7	29.2	22.7	31.1	25.2	29.2	34.8	33.4	30.5	31.1
	19 Waterloo	45.6	41.7	33.0	28.0	35.5	23.6	24.8	25.0	26.6	27.3	31.4
	20 Essex	34.4	36.8	32.7	26.3	28.8	28.4	21.3	31.9	41.2	29.3	32.4
	21 Bruce	39.3	45.8	29.8	27.4	36.5	25.4	22.9	27.8	31.8	43.3	32.9
	22 Haldimand	40.3	41.5	28.4	31.7	43.9	30.5	29.3	35.0	25.3	45.2	33.8
	23 Perth	33.6	35.3	37.8	35.8	35.0	35.0	17.5	35.0	35.3	33.6	34.1
	24 Norfolk	36.1	45.4	35.2	39.8	33.3	26.0	26.4	34.6	40.6	38.2	34.4
	25 Lambton	42.7	41.6	41.4	29.6	38.8	35.9	25.3	27.2	36.6	35.3	34.9
Higher Average Group:	26 Grenville	40.3	46.7	27.4	28.0	40.0	21.3	32.9	23.7	40.6	23.6	35.1
	27 Victoria	49.1	47.4	38.3	25.4	31.6	26.5	36.5	35.7	29.2	34.5	35.3
	28 Kent	40.6	40.6	40.6	27.4	38.8	36.3	22.9	37.2	34.0	30.6	35.6
	29 Wellington	42.3	47.4	43.5	28.6	43.5	22.7	47.7	29.9	37.4	33.8	36.2
	30 Peterborough	42.6	42.2	36.7	26.4	37.2	29.1	28.8	35.9	39.8	38.7	36.6
	31 Simcoe	45.0	44.5	43.3	32.6	36.7	30.1	29.1	28.9	37.8	40.2	36.6
	32 Leeds	43.7	41.9	31.3	38.9	35.3	43.1	27.0	20.7	37.6	37.0	37.0
	33 Grey	50.5	47.5	39.1	29.6	34.4	31.9	30.0	33.1	32.0	31.7	37.4
	34 Cochrane	51.1	42.3	43.5	33.3	34.0	30.6	31.2	31.6	32.7	28.8	37.4
	35 Prince Edward	45.2	44.6	34.7	35.2	43.3	33.8	27.1	30.7	46.0	32.9	37.7
	36 Russell	44.8	46.9	34.2	29.8	55.6	31.4	27.8	38.2	26.5	35.3	38.0
	37 Lennox	33.7	48.3	33.7	26.0	44.4	36.8	29.9	32.2	28.1	41.4	38.1
	38 Dufferin	44.1	46.3	48.4	32.2	39.2	29.0	26.1	37.8	40.2	39.8	38.4
	39 Hastings	51.0	43.7	42.7	31.3	40.8	40.1	26.8	33.7	33.8	33.8	39.0
District Group:	40 Lanark	46.8	40.6	50.0	40.8	55.5	37.3	30.9	33.1	34.9	41.1	41.3
	41 Timiskaming	52.1	59.4	45.8	33.0	40.6	30.3	33.9	33.3	34.3	32.4	41.5
	42 Renfrew	52.0	54.0	45.9	37.2	50.3	33.9	33.7	33.5	36.4	39.9	43.0
	43 Sudbury	52.7	53.0	40.9	30.6	44.6	45.1	33.1	45.9	46.4	42.5	43.2
	44 Prescott	55.2	47.7	40.7	46.5	37.9	40.7	36.9	41.1	51.8	27.3	43.5
	45 Thunder Bay	61.3	63.4	44.5	35.0	46.2	37.0	31.5	32.2	38.5	39.1	44.6
	46 Muskoka	55.5	60.1	53.6	35.2	50.0	33.0	34.5	36.7	34.9	32.7	45.0
	47 Frontenac	59.2	61.4	56.8	38.6	47.4	40.3	29.6	28.9	37.5	34.5	46.1
	48 Parry Sound	65.6	61.4	52.5	40.7	48.6	39.8	36.9	31.7	35.4	42.0	46.3
	49 Manitoulin	51.0	49.1	39.2	53.0	41.1	39.2	45.2	39.2	44.0	34.0	46.4
	50 Rainy River	73.0	52.7	50.0	49.4	37.4	41.9	51.3	33.3	35.2	45.3	47.4
	51 Algoma	65.6	47.0	58.0	41.3	49.0	49.5	35.3	39.2	52.9	46.8	48.9
	52 Addington	65.6	54.8	61.3	40.0	45.2	45.2	40.6	21.2	42.4	46.5	49.4
	53 Haliburton	73.5	68.8	46.1	42.9	65.6	35.5	38.7	46.9	37.1	61.3	51.7
	54 Kenora	64.9	52.7	50.0	60.5	35.0	50.0	51.2	34.1	53.6	51.2	51.8
	55 Nipissing	67.1	66.2	68.9	43.3	52.6	46.1	48.2	50.7	41.1	62.7	53.7
Average, All Counties		38.9	37.8	33.0	26.5	31.7	26.0	23.1	25.5	29.0	26.3	30.8
Average, All Districts		59.8	55.8	49.6	41.6	44.7	38.2	37.6	36.9	39.8	40.3	45.6
Grand Average		41.9	40.4	35.3	28.6	33.6	27.8	25.2	28.7	30.6	31.2	33.0

*Based on years 1928 to 1937 inclusive.

THE PUBLIC SCHOOLS

RELATION OF CURRENT EXPENSE TO ASSESSMENT IN CITIES, 1937



Graph 5.

THE PUBLIC

RURAL SCHOOLS

TABLE 21—FINANCIAL

Ordinary [A]	Assessment per Classroom[B]	No. of Classrooms	A.D.A.[C] for Calendar Year	A.D.A.[C] per Classroom	Major Sources	
					Section Levy[E]	Township Grant
In Counties	$				$	$
1 Halton	291,911	68	1,440	21	39,156	32,725
2 Perth	261,241	119	2,775	23	43,723	55,880
3 Wentworth	227,310	111	2,889	26	65,472	40,270
4 Middlesex	220,735	206	4,044	20	89,103	96,613
5 Brant	217,993	73	1,737	24	43,525	32,920
6 Kent	201,255	153	3,950	26	83,500	72,150
7 Essex	194,709	136	3,848	28	70,951	57,754
8 Elgin	194,231	125	2,482	20	51,752	58,734
9 Oxford	191,253	132	3,084	23	65,796	58,491
10 Norfolk	180,934	110	2,922	27	33,898	44,831
11 Huron	180,477	202	3,731	18	63,845	93,592
12 Waterloo	175,098	109	3,036	28	53,777	44,811
13 Wellington	172,884	154	2,924	19	52,956	72,549
14 Welland	155,891	91	2,415	27	42,051	58,607
15 York	154,944	199	5,719	29	155,644	90,208
16 Lambton	141,293	179	3,384	19	58,283	84,247
17 Lincoln	140,187	90	2,393	27	73,562	41,910
18 Simcoe	136,733	243	4,698	19	77,165	110,883
19 Peel	136,381	98	2,149	22	65,049	42,744
20 Victoria	133,892	112	1,673	15	32,957	47,716
21 Ontario	133,571	139	2,991	22	73,599	61,392
22 Prince Edward	129,475	74	1,235	17	15,431	35,043
23 Bruce	124,344	168	2,623	16	44,322	73,958
24 Haldimand	123,718	80	1,550	19	23,662	38,040
25 Dufferin	122,694	92	1,348	15	27,532	46,659
26 Durham	116,616	101	1,782	18	35,844	46,236
27 Carleton	116,193	138	2,693	20	62,506	58,314
28 Stormont	113,115	90	1,871	21	30,741	37,751
29 Northumberland	102,225	115	2,154	19	36,088	50,618
30 Grey	93,133	224	4,216	19	58,728	103,457
31 Russell	89,817	33	630	19	7,822	13,855
32 Lennox	86,308	87	1,416	16	15,783	36,355
33 Dundas	83,180	81	1,500	19	26,308	36,218
34 Renfrew	83,312	169	3,313	20	34,926	55,354
35 Glengarry	78,307	78	1,464	19	18,959	33,680
36 Peterborough	76,352	100	1,907	19	28,653	32,025
37 Lanark	74,795	126	1,731	14	20,132	50,101
38 Prescott	74,254	55	945	17	10,606	22,682
39 Hastings	74,002	199	3,959	20	50,882	62,160
40 Grenville	73,327	72	1,061	15	15,362	31,266
41 Leeds	72,075	146	2,243	15	37,101	56,809
42 Frontenac	41,292	151	2,570	17	32,433	40,780
43 Addington	21,771	31	476	15	3,427	9,177
44 Haliburton	16,454	60	960	16	7,661	14,257
Totals and Averages	137,006	5,319	107,931	20	1,980,673	2,283,822
In Districts						
1 Cochrane	71,789	77	2,062	27	87,318	660
2 Thunder Bay	49,457	122	2,419	20	102,569	5,662
3 Muskoka	44,802	104	1,727	17	41,676	14,439
4 Timiskaming	43,501	82	1,644	20	52,515	9,055
5 Algoma	39,587	104	2,364	23	62,398	6,795
6 Sudbury	32,451	115	2,717	24	73,843	3,262
7 Rainy River	32,380	74	1,324	18	53,141	5,645
8 Kenora	30,365	43	906	21	32,962	383
9 Manitoulin	28,319	48	952	20	19,343	4,976
10 Parry Sound	28,269	129	2,321	18	59,222	10,354
11 Nipissing	25,801	74	1,638	22	26,619	3,370
Totals and Averages	39,356	972	20,074	21	611,606	64,601
Totals and Averages	121,919	6,291	128,005	20	2,592,279	2,348,423

SCHOOLS
STATISTICS, 1937

of Receipts			Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness[H]	
	County Grant	Legislative Grant	Current[F]	Capital[G]	Current	Capital	Total	Amount	Per $1000 of Assessment
	$	$	$	$				$	$ c
1	2,390	13,605	81,430	4,708	25.4	1.4	26.8	41,021	2.06
2	4,081	18,543	118,413	777	22.6	.1	22.7	....	....
3	2,444	21,995	127,878	8,108	23.1	1.4	24.5	110,226	4.37
4	4,419	30,980	207,632	9,190	27.1	1.2	28.3	63,835	1.40
5	2,497	13,622	81,556	4,209	24.4	1.3	25.7	11,924	7.49
6	5,700	30,877	168,259	6,576	23.1	.9	24.0	23,273	7.56
7	4,061	27,395	160,570	7,538	21.8	1.0	22.8	999,511	37.74
8	3,978	39,239	119,158	7,002	26.6	1.5	27.7	45,898	1.89
9	3,933	23,487	144,028	8,661	24.4	1.5	25.9	57,863	2.29
10	4,244	19,211	106,816	....	19.4	....	19.4	3,777	.19
11	7,160	31,259	186,317	2,328	26.6	.3	26.9	26,143	.72
12	3,377	21,229	125,594	8,829	21.5	1.5	23.0	76,531	4.00
13	4,758	25,562	152,462	943	26.8	.2	27.0	3,200	.12
14	1,961	24,646	115,694	12,136	24.9	2.6	27.5	121,090	8.53
15	6,300	49,726	249,428	36,689	24.8	3.7	28.5	386,739	12.54
16	3,312	24,875	164,672	6,234	25.6	1.0	26.6	30,823	1.22
17	2,639	23,775	121,964	9,662	26.3	2.1	28.4	26,618	2.10
18	8,752	47,977	240,356	9,517	27.3	1.1	28.4	51,956	1.56
19	3,102	21,222	116,524	19,496	29.5	4.9	34.4	126,814	9.49
20	2,030	21,064	101,962	4,271	32.2	1.4	33.6	45,355	3.02
21	3,157	24,578	139,185	20,609	24.2	3.6	27.8	201,690	10.86
22	1,536	11,248	65,238	768	27.3	.3	27.6	9,510	.99
23	4,747	36,029	152,233	809	30.4	.1	30.5	6,325	.30
24	1,233	15,510	79,514	....	27.6	....	27.6	2,625	.27
25	3,396	14,672	84,490	604	33.5	.3	33.8	6,121	.54
26	5,671	21,847	102,280	3,897	30.6	1.2	31.8	13,500	1.15
27	3,815	26,986	143,385	12,881	27.4	2.5	29.9	90,336	5.63
28	2,419	16,438	79,394	8,774	21.8	2.4	24.2	51,535	5.06
29	3,298	23,811	108,888	4,448	26.2	1.1	27.3	30,125	2.56
30	7,654	41,160	201,647	3,338	25.2	.4	25.6	14,685	.70
31	1,727	7,319	32,166	247	26.9	.2	27.1	72	.02
32	1,055	13,364	67,124	....	31.4	....	31.4	....	....
33	2,013	16,557	75,561	4,430	26.6	1.6	28.2	12,743	1.89
34	3,934	42,028	138,985	3,362	15.3	.4	15.7	12,220	.87
35	2,172	16,575	68,195	1,494	24.6	.5	25.1	6,575	1.07
36	2,485	32,880	90,879	2,564	24.5	.7	25.2	21,280	2.79
37	1,925	23,708	95,709	950	28.6	.3	28.9	11,289	1.20
38	1,133	9,836	43,657	....	24.2	....	24.2	65	.01
39	6,210	62,969	173,492	6,665	22.8	.9	23.7	24,618	1.67
40	899	14,950	63,311	545	32.0	.3	32.3	2,120	.40
41	2,025	30,874	124,002	4,950	29.0	1.2	30.2	30,021	2.85
42	2,313	54,488	126,798	3,002	30.9	.7	31.6	23,625	3.79
43	1,100	15,402	27,998	1,157	30.6	1.2	31.8	12,020	17.81
44	....	31,778	51,300	1,046	28.1	.6	28.7	4,794	4.86
	147,055	1,135,296	5,226,144	253,414	25.3	1.2	26.5	2,840,491	3.91
1	....	54,418	125,715	15,315	32.2	3.9	36.1	148,830	26.92
2	....	72,274	156,476	14,147	33.9	3.0	36.9	82,023	13.59
3	....	52,467	102,657	4,556	30.6	1.4	32.0	44,137	9.47
4	....	46,334	101,694	5,918	32.4	1.9	34.3	28,696	8.04
5	....	46,222	111,962	1,681	25.4	3.8	29.2	35,083	8.52
6	....	69,961	134,530	1,198	25.8	2.3	28.1	148,064	39.67
7	....	52,171	89,529	15,443	35.0	6.1	41.1	137,490	57.38
8	....	31,210	60,101	3,663	35.0	2.1	37.1	35,272	27.01
9	....	25,234	45,386	3,601	24.7	2.0	26.7	31,275	23.01
10	....	72,439	132,292	4,985	28.9	1.1	30.0	24,566	6.73
11	....	43,059	68,975	4,609	21.9	1.5	23.4	33,315	17.45
	....	565,789	1,129,317	75,116	29.4	1.9	31.3	748,751	19.57
	147.055	1.701,085	6,355,461	328,530	26.0	1.3	27.3	3,589,242	4.70

THE PUBLIC

TABLE 21—FINANCIAL

RURAL SCHOOLS

Large Suburban and Semi-Urban	Township	School Section No.	Adjacent to	Assessment per Classroom B	No. of Classrooms	A.D.A.c for Calendar Year	A.D.A. per Classroom
In Counties				$			
1 Brant........	Brantford..........	3	Brantford......	103,658	7	250	37
2 Carleton.....	Nepean............	2	Ottawa........	104,378	26	926	36
3 Essex........	Sandwich East......	5	Windsor........	45,849	13	467	36
4 Lincoln......	Grantham..........	U5, 6	St. Catharines...	77,748	8	239	30
5 Ontario......	Whitby East........	10	Oshawa........	53,166	10	399	40
6 Peel.........	Toronto............	7	Lakeview.......	74,814	12	446	37
7 Peterborough.	Monaghan North....	2	Peterborough...	73,159	10	335	34
8 Welland.....	Stamford...........	4	Niagara Falls...	106,400	8	269	34
9	Stamford...........	6	Niagara Falls...	69,142	13	425	33
10	Stamford...........	7	Niagara Falls...	509,296	9	274	30
11	Bertie..............	11	Ridgeway......	197,755	9	244	27
12	Crowland...........	3	Welland........	108,315	19	615	32
13	Thorold............	2	Thorold........	239,806	10	275	28
14 Wentworth...	Burlington Beach....	....	Hamilton.......	311,578	6	191	32
15 York........	Etobicoke..........	3	Lambton Mills..	229,726	11	355	32
16	Etobicoke..........	5	Weston........	161,426	7	260	37
17	Etobicoke..........	8	Islington.......	151,605	9	274	30
18	Etobicoke..........	11	Humber Bay....	89,575	14	438	31
19	Etobicoke..........	16	Long Branch....	50,683	14	454	32
20	York..............	Twp.	Toronto........	93,183	315	10,314	33
21	York East..........	Twp.	Toronto........	97,608	153	5,571	36
22	York North.........	3	Toronto........	136,339	37	1,303	35
23	Scarboro...........	10	Toronto........	55,745	25	795	32
24	Scarboro...........	12	Toronto........	48,270	23	733	32
25	Scarboro...........	13	Toronto........	155,803	11	187	17
26	Scarboro...........	15	Toronto........	95,013	16	501	31
Totals and	Averages, Counties...	....	....	104,232	795	26,540	33
In Districts							
1 Cochrane....	Tisdale............	1	South Porcupine.	93,948	19	600	32
2	Tisdale............	2	Schumacher.....	122,258	19	639	34
3 Parry Sound..	Himsworth.........	U4	Callander.......	20,506	8	221	28
4 Sudbury.....	Chapleau...........	1	Chapleau.......	90.777	7	187	27
5	Snider and Creighton.	U1	Creighton Mine.	139,560	8	283	35
6	Garson.............	3	Garson Mine....	20,462	6	175	29
7 Timiskaming .	Teck...............	Sch. Area	Kirkland Lake..	95,612	53	1,773	33
8 Thunder Bay.	Schreiber...........	1	Schreiber.......	75,811	6	177	30
Totals and	Averages, Districts...	....	....	92,791	126	4,055	32
Totals and Averages, All Large Urban and Suburban Schools..				102,666	921	30,595	33

SCHOOLS

STATISTICS, 1937

	Major Sources of Receipts				Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness H	
	Section Levy E	Township Grant	County Grant	Legislative Grant	Current F	Capital G	Current	Capital	Total	Amount	Per $1,000 of Assessment
	$	$	$	$	$	$				$	$ c
1	6,956	2,400	222	2,293	10,289	2,472	21.7	5.2	26.9	10,702	14.75
2	31,308	9,120	671	10,785	49,951	2,928	27.8	1.6	29.4	29,287	9.20
3	8,347	4,000	40	4,279	17,839	D	19.7	D	....	117,437	191.13
4	12,892	3,960	314	4,247	12,540	4,152	27.6	9.1	36.7	25,000	42.97
5	12,599	3,360	78	3,657	11,701	7,359	15.2	9.6	24.8	72,302	133.80
6	23,026	4,160	671	5,980	21,569	10,784	28.9	14.4	43.3	111,210	123.87
7	8,291	3,520	231	4,124	13,882	2,487	21.3	3.8	25.1	18,588	30.69
8	4,000	8,000	510	3,368	14,038	....	26.9	....	26.9	28,464	33.44
9	8,557	12,000	726	6,805	22,593	3,157	27.3	3.8	31.1	64,227	71.46
10	10,000	8,000	380	3,120	18,887	....	35.4	....	35.4	....	....
11	18,048	4,200	162	2,142	14,066	10,870	30.5	23.6	54.1	96,949	53.88
12	20,835	8,200	395	5,313	26,003	8,535	21.9	7.3	29.2	61,918	31.84
13	16,864	8,600	435	2,403	20,961	7,199	39.1	13.5	52.6	67,948	27.90
14	46,662	....	....	987	10,068	....	27.1	....	27.1	....	....
15	14,461	3,680	801	3,678	22,151	D	36.8	D	....	43,529	24.06
16	4,903	2,400	205	4,505	12,131	D	24.1	D	....	44,067	70.07
17	9,441	3,040	629	4,191	17,191	D	32.5	D	....	84,590	76.54
18	15,276	4,800	654	8,242	28,989	D	39.1	D	....	104,184	96.62
19	9,850	4,800	341	8,153	23,050	D	31.1	D	....	117,019	150.03
20	470,955	....	10,100	199,899	596,889	70,309	34.3	4.0	38.3	2,181,689	96.02
21	229,717	....	5,327	72,229	271,106	35,154	28.8	3.7	32.5	1,223,897	81.95
22	44,735	12,640	1,283	12,601	60,510	6,646	27.5	3.0	30.5	228,323	45.26
23	18,650	7,840	894	10,592	34,439	D	25.6	D	....	174,038	100.65
24	14,478	7,520	174	10,407	31,436	D	25.5	D	....	117,557	91.93
25	12,058	3,520	248	2,566	19,367	D	30.8	D	....	82,239	49.25
26	14,290	1,120	23	1,250	27,241	D	36.8	D	....	99,778	64.15
	1,087,199	130,880	25,514	397,816	1,408,887	172,106	30.3	4.5I	34.8I	5,204,942	68.61
1	29,254	1,520	....	11,736	45,097	3,342	38.7	2.9	41.6	26,685	17.28
2	38,000	....	....	6,805	44,507	....	34.8	....	34.8	....	....
3	1,475	488	....	8,903	12,062	1,475	28.3	3.4	31.7	13,153	....
4	14,949	....	....	2,669	12,322	5,449	33.8	15.0	48.8	81,730	114.36
5	12,317	....	....	3,510	14,944	....	27.3	....	37.3	....	....
6	3,852	550	....	4,455	7,730	....	23.4	....	23.4	....	....
7	110,486	....	....	23,352	101,062	28,186	29.5	8.2	37.7	141,897	33.79
8	6,911	....	....	2,588	9,509	710	27.7	2.1	29.8	707	1.50
	217,244	2,558	....	64,018	247,233	39,162	31.3	5.0	36.3	264,172	25.21
	1,304,443	133,438	25,514	461,834	1,656,120	211,268	30.5	4.6I	35.1I	5,469,114	63.34

THE PUBLIC

TABLE 21—FINANCIAL

URBAN SCHOOLS

Cities	County	Assessed Population j	No. of Class-rooms	Local Assess-ment per Class-room	A.D.A. c for the Calendar year	A.D.A. c per Class-room
Group A				$		
1 Toronto................	York................	648,309	1,902	483,921	72,952	38
Group B						
2 Hamilton...............	Wentworth...........	153,527	527	288,251	18,883	36
3 Ottawa.................	Carleton............	142,852	255	478,243	9,046	35
4 Windsor................	Essex...............	102,704	306	240,313	11,132	36
5 London.................	Middlesex...........	74,281	233	326,828	8,257	35
Totals and Averages,	Group B.............	473,364	1,321	318,355	47,268	36
Group C						
6 Kitchener..............	Waterloo............	32,550	105	195,966	3,865	37
7 Brantford..............	Brant...............	31,282	105	241,948	3,496	33
8 St. Catharines.........	Lincoln.............	27,426	90	234,458	3,157	36
9 Oshawa.................	Ontario.............	24,844	86	291,084	3,447	40
10 Kingston..............	Frontenac...........	24,331	67	242,257	2,477	37
11 Peterborough..........	Peterborough........	23,450	77	273,179	2,582	34
12 Guelph................	Wellington..........	21,333	63	189,228	2,296	36
Totals and Averages,	Group C.............	185,216	593	238,286	21,320	36
Group D						
13 Sudbury...............	Sudbury.............	26,315	45	206,862	1,564	35
14 Fort William..........	Thunder Bay.........	24,020	91	264,735	3,047	33
15 Sault Ste. Marie......	Algoma..............	23,627	80	212,876	2,750	34
16 Port Arthur...........	Thunder Bay.........	20,302	73	334,312	2,315	32
17 North Bay.............	Nipissing...........	15,287	45	156,142	1,371	30
Totals and Averages,	Group D.............	109,551	334	245,097	11,047	33
Group E						
18 Niagara Falls.........	Welland.............	18,747	64	251,836	2,369	37
19 Sarnia................	Lambton.............	18,155	69	247,985	2,235	33
20 Stratford.............	Perth...............	17,615	60	205,522	2,022	34
21 St. Thomas............	Elgin...............	16,208	55	240,500	1,751	32
22 Chatham...............	Kent................	16,153	53	238,878	1,840	35
23 Belleville............	Hastings............	14,560	48	198,339	1,642	34
24 Galt..................	Waterloo............	14,410	46	228,550	1,662	36
25 Owen Sound............	Grey................	13,118	56	136,012	1,886	34
26 Woodstock.............	Oxford..............	11,382	38	200,439	1,250	33
27 Welland...............	Welland.............	10,924	53	185,795	1,730	33
Totals and Averages,	Group E.............	151,272	542	214,184	18,387	34
Totals and Averages,	All Cities..........	1,567,712	4,692	359,169	170,974	36

Group A—Cities with population over 200,000.
Group B— " " " " 50,000 and under 200,000.
Group C— " " " " 20,000 and under 50,000.
Group D— " in Districts.
Group E— " with population under 20,000.

SCHOOLS

STATISTICS, 1937

	Major Sources of Receipts		Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness[H]	
	School District Levy[E]	Legislative Grants	Current[F]	Capital[G]	Current	Capital	Total	Amount	Per $1,000 of Local Assessm't
	$	$	$	$				$	$ c.
1	6,996,921	151,920	5,990,312	1,127,633	48.6	9.1	57.7	13,850,817	15.05
2	1,252,486	74,080	1,069,342	264,535	29.2	7.2	36.4	1,258,446	8.28
3	970,738	43,924	853,758	176,768	48.6	10.1	58.7	3,055,180	25.05
4	671,160	25,398	706,948	19,200[K]	33.1	8.9[K]	42.0	4,180,562	55.34
5	683,912	23,153	570,307	128,925	37.7	8.5	46.2	751,175	9.86
	3,578,296	166,555	3,200,355	589,428	35.3	6.5	41.8	9,245,363	21.98
6	246,917	22,977	215,018	56,793	29.1	7.7	36.8	573,685	27.88
7	218,592	16,159	207,063	32,597	30.5	4.8	35.3	271,000	10.67
8	216,328	11,709	185,555	32,560	30.8	5.4	36.2	235,138	11.14
9	191,130	12,366	148,031	53,875	22.0	8.0	30.0	283,460	11.32
10	150,362	7,187	133,820	27,494	29.3	6.0	35.3	303,010	18.67
11	189,510	9,508	172,239	32,610	34.4	6.5	40.9	467,150	22.21
12	107,602	7,516	102,483	11,824	22.9	2.6	25.5	80,345	6.74
	1,320,441	87,422	1,164,209	247,753	28.4	6.0	34.4	2,213,788	15.67
13	139,774	3,740	79,603	62,274	26.2	20.5	48.7	143,331	15.40
14	229,090	10,561	181,510	59,755	30.8	10.2	41.0	813,000	33.75
15	187,208	8,414	144,439	50,221	27.1	9.4	36.5	647,130	38.00
16	192,842	6,583	147,965	53,045	33.1	11.9	45.0	224,687	9.21
17	93,568	6,931	77,885	22,738	30.9	9.0	39.9	119,919	17.07
	842,482	36,229	631,402	248,033	29.7	11.7	41.4	1,948,067	23.80
18	140,350	6,543	113,007	34,118[L]	24.5	2.2	26.7	201,572	12.50
19	149,349	8,701	134,788	23,246	31.9	5.5	37.4	145,183	8.48
20	128,246	7,279	107,797	29,995	29.6	8.2	37.8	157,122	12.74
21	102,774	4,713	92,125	17,729	28.7	5.5	34.2	21,797	1.65
22	104,260	10,165	109,448	5,021	32.1	1.5	33.6	....	....
23	103,619	4,383	78,417	31,989	24.6	10.1	34.7	412,254	43.30
24	81,517	4,623	80,837	6,017	25.4	1.9	27.3	20,848	1.98
25	90,020	8,189	90,203	....	25.8	....	25.8	90,000	11.82
26	59,647	3,067	56,250	9,817	24.1	4.2	28.3	86,622	12.13
27	135,266	6,103	101,069	20,309	30.0	6.0	36.0	281,697	28.61
	1,095,048	63,766	963,941	178,241	27.8	7.9	35.7	1,417,095	12.21
	13,833,188	505,892	11,950,219	2,391,088	38.4	7.7	46.1	28,675,130	17.07

THE PUBLIC

TABLE 21—FINANCIAL

Towns	County	Assessed Population J	No. of Class-rooms	Assess-ment per Class-room B	A.D.A. c for the Calendar year	A.D.A. c per Class-room
GROUP A				$		
1 Cornwall	Stormont	12,870	22	327,667	821	37
2 Pembroke	Renfrew	10,364	26	138,579	854	33
3 Brockville	Leeds	9,983	33	181,854	1,130	34
4 Orillia	Simcoe	8,704	31	176,366	1,131	36
5 Waterloo	Waterloo	8,425	31	224,380	966	31
6 Barrie	Simcoe	8,135	31	170,986	965	31
7 Smith's Falls	Lanark	7,626	25	163,843	875	35
8 Lindsay	Victoria	7,294	27	181,064	867	32
9 Eastview	Carleton	7,275	7	59,760	195	28
10 New Toronto	York	7,095	30	154,512	1,040	34
11 Mimico	York	6,940	28	136,189	994	36
12 Midland	Simcoe	6,669	22	212,981	747	34
13 Trenton	Hastings	6,480	21	147,703	895	42
14 Preston	Waterloo	6,415	17	217,647	632	37
15 Port Colborne	Welland	6,348	32	142,883	1,285	40
Totals and Averages,	Group A	120,623	383	178,176	13,397	35
GROUP B						
16 Hawkesbury	Prescott	5,912	4	155,485	113	28
17 Simcoe	Norfolk	5,826	20	247,805	800	40
18 Fort Erie	Welland	5,757	33	133,548	856	26
19 Brampton	Peel	5,638	20	172,680	679	34
20 Collingwood	Simcoe	5,478	21	116,015	736	35
21 Leamington	Essex	5,446	20	176,588	724	36
22 Renfrew	Renfrew	5,328	12	190,948	387	32
23 Ingersoll	Oxford	5,177	19	150,398	658	35
24 Cobourg	Northumberland	5,125	19	140,749	614	32
25 Riverside	Essex	5,090	15	85,914	524	35
26 Weston	York	5,048	20	146,282	617	31
27 Dundas	Wentworth	4,955	15	175,473	559	37
28 Thorold	Welland	4,904	15	111,366	500	33
29 Port Hope	Durham	4,577	16	152,887	625	39
30 Wallaceburg	Kent	4,537	16	100,299	544	35
31 Goderich	Huron	4,488	15	120,217	516	34
32 Paris	Brant	4,325	16	184,368	470	29
33 Carleton Place	Lanark	4,278	16	91,343	599	37
34 Perth	Lanark	4,183	12	126,892	404	34
35 Penetanguishene	Simcoe	4,177	22	57,234	793	36
36 Arnprior	Renfrew	4,133	11	141,042	374	34
37 St. Mary's	Perth	4,017	14	159,631	416	30
38 Dunnville	Haldimand	4,004	11	90,909	452	41
Totals and Averages,	Group B	112,403	382	140,264	12,960	34
GROUP C						
39 Oakville	Halton	3,864	14	249,118	455	32
40 Bowmanville	Durham	3,850	14	171,993	504	36
41 Tillsonburg	Oxford	3,828	13	141,060	525	40
42 Whitby	Ontario	3,706	13	162,704	422	32
43 Burlington	Halton	3,679	14	217,113	458	33
44 Gananoque	Leeds	3,556	10	181,420	371	37
45 Newmarket	York	3,526	15	126,843	496	33
46 Picton	Prince Edward	3,410	12	242,375	427	36
47 Hanover	Grey	3,191	13	84,846	426	33
48 Napanee	Lennox	3,018	11	103,454	392	36
49 Strathroy	Middlesex	2,947	11	153,392	376	34
50 Campbellford	Northumberland	2,923	11	119,033	379	35
51 Amherstburg	Essex	2,869	7	234,997	193	27
52 Prescott	Grenville	2,850	9	138,029	291	32
53 Listowel	Perth	2,826	9	173,226	307	34
54 Hespeler	Waterloo	2,810	12	161,291	434	36
55 Aurora	York	2,750	10	137,684	386	39
56 Meaford	Grey	2,719	10	89,250	268	27
57 Petrolia	Lambton	2,711	11	92,182	354	32
58 Merritton	Lincoln	2,644	9	155,944	298	33
59 Leaside	York	2,621	10	323,143	312	31
60 Orangeville	Dufferin	2,479	9	138,437	301	33
61 Kincardine	Bruce	2,458	9	84,557	329	37
62 Kingsville	Essex	2,363	11	197,817	360	33
63 Almonte	Lanark	2,362	7	130,219	250	36
64 Walkerton	Bruce	2,358	6	100,119	179	30
65 Georgetown	Halton	2,325	8	201,736	278	35

SCHOOLS

STATISTICS, 1937

	Major Sources of Receipts		Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness H	
	School District Levy E	Legislative Grant	Current F	Capital G	Current	Capital	Total	Amount	Per $1,000 of Assessm't
	$	$	$	$				$	$ c.
1	47,040	1,636	34,814	10,766	23.3	7.2	30.5	126,554	17.55
2	39,199	3,078	43,432	D	26.2	D	....	173,794	48.24
3	52,600	3,088	57,005	900	27.4	.4	27.8	900	.15
4	49,367	2,827	46,764	4,979	22.5	2.4	24.9	37,279	7.19
5	69,498	4,859	54,371	18,974	29.0	10.1	39.1	219,836	31.61
6	50,748	2,792	45,376	2,641	26.4	1.5	27.9	45,661	8.61
7	39,251	3,021	38,725	6,992	23.0	4.2	27.2	29,838	7.28
8	37,126	2,150	34,325	5,678	21.0	3.5	24.5	12,794	2.62
9	9,966	1,535	11,370	....	30.2	....	30.2	....	....
10	81,079	4,404	61,367	26,079	33.9	14.4	48.3	138,133	29.80
11	47,890	4,062	51,946	D	30.7	D	....	203,666	53.41
12	29,127	1,986	33,316	D	23.0	D	....	71,615	15.29
13	37,367	2,479	31,697	7,283	19.0	4.4	23.4	46,035	14.84
14	27,488	1,226	26,925	3,180	23.2	2.7	25.9	5,870	1.58
15	72,598	4,232	55,547	22,598	23.6	9.6	33.2	121,679	26.61
	690,344	43,375	626,980	110,070	25.2	5.5	30.7	1,233,654	18.05
16	7,457	322	8,016	....	38.0	....	38.0	....	....
17	26,053	1,462	23,953	....	16.8	....	16.8	....	....
18	48,320	2,955	53,354	D	45.6	D	....	231,377	51.98
19	37,225	1,981	31,570	7,649	26.9	6.5	33.4	57,735	16.72
20	24,233	2,120	26,591	....	19.2	....	19.2	....	....
21	25,423	1,810	27,068	D	19.5	D	....	79,232	22.43
22	19,742	1,161	18,352	2,342	24.5	3.1	27.6	6,377	2.79
23	40,665	2,258	27,054	15,779	21.3	12.4	33.7	32,961	11.53
24	31,712	2,181	28,249	6,016	21.9	4.7	26.6	20,425	7.64
25	20,775	2,227	23,645	D	23.5	D	....	273,213	212.00
26	28,547	1,503	31,042	D	29.8	D	....	82,468	28.19
27	24,481	1,283	20,967	6,181	19.7	5.8	25.5	30,313	11.51
28	21,707	2,255	24,481	D	25.2	D	....	97,110	58.15
29	25,588	1,385	23,140	4,588	20.4	4.03	24.4	34,704	14.19
30	23,906	2,309	21,382	5,160	21.8	5.3	27.1	51,798	32.29
31	20,535	1,772	20,989	1,534	22.6	1.6	24.1	4,219	2.34
32	21,700	2,041	23,230	....	25.4	....	25.4	....	....
33	15,688	2,292	20,282	688	17.4	.6	18.0	6,906	4.74
34	17,615	2,435	17,366	1,838	22.5	2.4	24.9	4,300	2.82
35	15,008	5,707	26,603	D	34.5	D	....	10,221 H	8.12
36	16,190	1,020	13,868	4,035	19.4	5.7	25.1	39,399	25.40
37	22,815	1,019	18,861	5,815	25.2	7.8	32.9	74,802	33.48
38	18,769	2,125	16,383	3,269	20.3	4.1	24.4	30,387	30.39
	554,154	45,623	546,446	64,894	23.0	3.9 I	....	1,167,947	21.75
39	21,011	1,038	21,158	....	24.0	....	24.0	....	....
40	20,373	1,125	19,415	1,373	22.1	1.6	23.7	18,504	7.68
41	16,650	1,355	18,899	....	19.8	....	19.8	....	....
42	21,838	1,047	16,622	7,088	20.3	8.6	28.9	53,322	25.21
43	25,235	1,113	22,364	4,235	25.3	4.8	30.1	63,355	20.84
44	13,007	869	14,242	1,257	20.6	1.8	22.4	55,463	30.57
45	24,750	2,688	20,712	5,750	22.9	6.3	29.2	47,477	24.96
46	19,118	1,797	18,075	1,993	22.7	2.0	24.7	19,306	6.71
47	14,300	1,905	16,462	1,635	21.8	2.2	24.0	6,885	6.24
48	13,600	1,402	14,695	....	21.2	....	21.2	....	....
49	13,300	854	13,450	....	18.4	....	18.4	....	....
50	13,850	1,140	13,665	....	19.9	....	19.9	....	....
51	14,047	673	12,750	1,301	34.0	3.5	37.5	3,543	2.16
52	14,017	993	11,969	2,657	34.0	7.5	41.5	10,255	8.25
53	11,890	790	11,214	1,090	20.4	2.8	22.4	8,594	5.51
54	20,657	2,294	18,645	6,277	22.5	7.6	30.1	17,953	9.28
55	14,000	1,419	16,277	....	22.9	....	22.9	....	....
56	13,544	996	12,968	1,917	27.5	4.1	31.6	838	.93
57	13,842	1,341	14,463	....	21.7	....	21.7	....	....
58	17,410	704	14,566	3,853	27.4	7.3	34.0	40,048	28.54
59	36,696	1,046	19,005	20,196	36.2	38.5	74.7	1,014,689	314.05
60	11,603	1,202	12,262	....	25.0	....	25.0	....	....
61	10.182	991	10,896	576	17.3	.9	18.2	8,500	11.69
62	12,730	685	13,032	D	18.6	D	....	47,216	21.70
63	7,720	743	9,114	....	19.0	....	19.0	....	....
64	7,880	935	9,530	....	28.0	....	28.0	....	....
65	12,507	655	12.449	807	25.0	1.6	26.6	....	....

THE PUBLIC

TABLE 21—FINANCIAL

Towns	County	Assessed Population J	No. of Class-rooms	Assess-ment per Class-room B	A.D.A. c for the Calendar year	A.D.A. c per Class-room
GROUP C—(*Cont.*)				$		
66 Tecumseh	Essex	2,245	2	167,387	56	28
67 Rockland	Russell	2,103	1	73,035	18	18
68 Wingham	Huron	2,085	8	111,356	225	28
69 Elmira	Waterloo	2,069	8	234,542	322	40
Totals and Averages,	Group C	89,145	307	161,340	10,392	34
GROUP D						
70 Aylmer	Elgin	1,998	10	182,296	350	35
71 Grimsby	Lincoln	1,981	9	156,433	270	30
72 Tilbury	Kent	1,980	4	107,997	128	32
73 Ridgetown	Kent	1,956	8	106,737	248	31
74 Mount Forest	Wellington	1,946	5	165,131	180	36
75 Alexandria	Glengarry	1,919	2	88,143	27	15
76 Clinton	Huron	1,901	7	109,924	198	28
77 Durham	Grey	1,852	8	63,476	237	30
78 Essex	Essex	1,833	8	130,951	264	33
79 Chesley	Bruce	1,815	6	121,534	221	37
80 Milton	Halton	1,791	8	239,791	229	29
81 Blenheim	Kent	1,775	8	98,786	281	35
82 Wiarton	Bruce	1,743	8	73,779	271	33
83 Seaforth	Huron	1,708	7	108,726	174	25
84 Niagara	Lincoln	1,651	5	161,500	174	35
85 Mitchell	Perth	1,607	6	157,121	209	35
86 Uxbridge	Ontario	1,527	7	38,507	233	33
87 Forest	Lambton	1,502	5	114,120	170	34
88 Dresden	Kent	1,477	6	94,433	195	33
89 Palmerston	Wellington	1,410	6	136,875	189	33
90 Alliston	Simcoe	1,340	7	135,130	221	32
91 Vankleek Hill	Prescott	1,302	3	207,313	56	19
92 Deseronto	Hastings	1,300	6	62,501	189	31
93 Harriston	Wellington	1,266	5	177,174	187	37
94 Southampton	Bruce	1,202	6	83,505	169	28
95 Stayner	Simcoe	1,034	4	210,250	115	29
96 Parkhill	Middlesex	997	3	172,176	124	41
97 Harrow	Essex	984	5	163,980	175	35
98 La Salle	Essex	812	1	400,570	26	26
99 Thornbury	Grey	788	3	93,125	101	34
100 Bothwell	Kent	643	2	104,550	78	39
Totals and Averages,	Group D	47,040	178	129,254	5,689	32
GROUP A	District					
101 Timmins	Cochrane	23,622	52	109,087	2,018	39
GROUP B						
102 Kenora	Kenora	8,421	28	163,047	996	36
103 Fort Frances	Rainy River	5,713	27	125,745	872	32
104 Sturgeon Falls	Nipissing	4,782	6	198,516	174	29
105 Copper Cliff	Sudbury	3,780	16	324,249	470	29
106 Parry Sound	Parry Sound	3,577	15	108,481	559	37
107 Kapuskasing	Cochrane	3,499	13	197,576	363	28
108 Cochrane	Cochrane	3,214	12	109,855	368	31
109 Cobalt	Timiskaming	3,022	13	67,734	353	27
110 New Liskeard	Timiskaming	2,968	12	134,778	406	34
111 Huntsville	Muskoka	2,707	12	98,919	445	37
112 Haileybury	Timiskaming	2,600	8	132,662	216	27
113 Bracebridge	Muskoka	2,493	10	103,771	386	39
114 Blind River	Algoma	2,375	6	55,579	191	32
115 Coniston	Sudbury	2,069	4	78,781	88	22
116 Gravenhurst	Muskoka	2,052	11	77,625	361	33
117 Mattawa	Nipissing	2,012	1	149,144	63	63
Totals and Averages,	Group B	55,284	194	140,665	6,311	33
GROUP C						
118 Sioux Lookout	Kenora	1,901	9	78,993	302	34
119 Capreol	Sudbury	1,730	10	81,655	360	36
120 Dryden	Kenora	1,661	9	168,635	329	37
121 Thessalon	Algoma	1,624	8	76,944	273	34
122 Keewatin	Kenora	1,483	7	197,582	211	30
123 Iroquois Falls	Cochrane	1,302	6	320,087	196	33
124 Rainy River	Rainy River	1,298	5	97,660	148	30
125 Englehart	Timiskaming	1,219	8	57,788	266	33
126 Little Current	Manitoulin	1,115	4	63,500	113	28
Totals and Averages,	Group C	13,333	66	116,444	2,198	31

SCHOOLS

STATISTICS, 1937

	Major Sources of Receipts		Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness H	
	School District Levy E	Legislative Grant	Current F	Capital G	Current	Capital	Total	Amount	Per $1,000 of Assessment B
	$	$	$	$				$	$ c.
66	2,546	245	2,997	D	27.6	D	....	14,825	44.38
67	783	90	961	....	27.6	....	27.6	....	....
68	9,410	1,871	11,294	....	26.8	....	26.8	....	....
69	10,000	608	11,395	....	18.2	....	18.2	....	....
	458,496	34,614	435,546	62,005	22.8	3.4	26.2	1,430,773	....
70	13,489	1,391	13,173	1,204	20.6	1.9	22.0	10,832	5.95
71	12,919	2,243	13,710	566	26.3	1.1	27.4	....	....
72	2,962	772	5,822	310	23.4	1.2	24.6	639	1.48
73	9,919	1,929	10,591	....	1.0	....	....	....	....
74	5,600	607	6,239	....	17.3	....	17.3	....	....
75	2,496	275	2,469	....	47.5	....	47.5	....	....
76	9,115	1,291	8,612	1,965	22.4	....	....	21,000	27.31
77	5,500	1,846	7,802	....	17.0	....	17.0	....	....
78	9,414	914	8,917	D	17.4	D	....	297,959	284.42
79	6,900	1,095	8,669	449	20.5	1.0	21.5	1,630	2.24
80	7,717	693	9,393	724	21.6	1.7	23 3	5,425	2.83
81	10,164	1,383	10,850	414	21.7	.8	22.5	2,944	3.73
82	10,210	2,156	10,019	710	19.0	1.3	20.3	3,170	5.37
83	7,847	1,335	8,604	299	26.5	.9	27.4	299	.39
84	7,163	827	7,046	616	29.7	2.6	32.3	1,058	1.31
85	8,564	722	7,305	2,064	18.1	5.1	23.2	11,730	12.44
86	6,100	1,327	8,276	674	18.3	1.5	19.8	2,695	10.00
87	5,490	810	5,962	240	18.0	.7	18.7	1,283	2.22
88	6,492	852	6,825	585	18.7	1.6	20.3	5.487	9.63
89	5,562	923	6,791	....	19.1	....	19.1	....	....
90	7,117	975	8,513	980	21.2	2.4	23.6	6,990	7.39
91	3,000	573	3,594	....	32.7	....	32.7	....	....
92	5,521	1,038	6,590	816	18.0	2.2	20.2	3,540	9.44
93	5,054	755	6,454	981	17.7	2.7	20.4	4,079	4.61
94	6,267	1,501	7,232	339	21.9	1.0	22.9	1,764	3.52
95	9,805	289	4,422	2,305	20.4	10.6	31.0	21,810	25.94
96	3,400	412	3,751	....	16.1	....	16.1	....	....
97	4,500	838	6,048	....	17.9	....	17.9	....	....
98	5,157	87	5,207	D	103.8	D	....	45,662	113.99
99	3,046	341	2,845	....	14.8	....	14.8	....	....
100	1,863	662	2,648	113	18.7	.8	19.5	....	....
	208,353	30,862	224,379	16,354	20.9	1.6	22.5	449,996	19.56
101	170,450	9,145	111,277	27,856	28.6	7.2	35.8	199,331	10.40
102	59,478	2,507	39,526	11,989	20.5	6.2	26.7	89,503	19.61
103	55,700	3,175	44,353	16,810	26.2	9.9	36.1	96,844	28.52
104	9,703	378	11,385	....	33.8	....	33.8	....	....
105	25,033	1,200	30,157	....	32.2	....	32.2	....	....
106	21,409	1,784	20,904	3,154	19.4	2.9	22.3	30,585	18.80
107	27,117	3,390	24,072	8,600	34.2	12.2	46.4	102,781	40.01
108	20,861	2,060	21,618	1,765	30.2	2.5	32.7	36,450	27.65
109	19,649	6,774	25,915	....	37.8	....	37.8	....	....
110	21,638	1,423	19,248	4,538	24.5	5.8	30.3	21,046	13.01
111	12,558	1,278	14,529	....	17.5	....	17.5	....	....
112	12,419	1,308	12,055	1,431	29.4	3.5	32.9	2,862	2.70
113	11,972	1,162	12,622	759	18.8	1.1	19.9	2,511	2.42
114	5,785	762	5,866	....	15.8	....	15.8	....	....
115	5,709	1,022	6,185	....	36.1	....	36.1	....	....
116	15,272	2,553	13,751	5,272	21.9	8.4	30.3	26,335	30.86
117	1,100	97	1,322	....	10.9	....	10.9	....	....
	325,403	30,873	303,508	54,318	25.1	4.5	29.6	408,917	14.98
118	20,116	2,834	17,777	2,408	30.8	4.2	35.0	43,283	60.88
119	15,860	2,203	13,366	4,780	19.3	6.9	26.2	13,315	16.30
120	20,092	1,272	13,511	4,693	21.2	7.4	28.6	41,886	27.59
121	8,142	1,364	7,906	1,626	14.9	3.1	18.0	2,927	4.8
122	16,468	745	9,529	4,184	23.3	10.2	33.5	21,476	15.53
123	11,825	846	12,389	8,832	32.6	8.5	41.1	70,902	36.91
124	7,759	1,545	9,234	....	32.4	....	32.4	....	....
125	7,871	7,974	11,371	4,671	22.1	9.1	31.2	44,078	95.35
126	3,000	1,080	9,325	....	42.6	....	42.6	....	......
	111,133	19,863	104,408	31,194	24.6	6.0	30.6	237,867	29.18

THE PUBLIC

TABLE 21—FINANCIAL

Towns	District	Assessed Population J	No. of Class-rooms	Assessment per Class-room B	A.D.A. c for the Calendar year	A.D.A. c per Class-room
GROUP D				$		
127 Cache Bay............	Nipissing............	978	2	74,572	63	32
128 Smooth Rock Falls.....	Cochrane............	939	4	97,701	118	30
129 Powassan............	Parry Sound..........	790	4	72,123	157	39
130 Gore Bay............	Manitoulin...........	789	3	84,811	107	35
131 Massey..............	Sudbury.............	658	3	30,341	77	26
132 Hearst..............	Cochrane............	648	3	48,667	94	31
133 Webbwood............	Sudbury.............	418	4	32,250	101	25
134 Bruce Mines..........	Algoma..............	396	3	80,950	98	33
135 Trout Creek..........	Parry Sound..........	382	2	48,949	65	33
136 Bala................	Muskoka.............	360	2	245,713	67	34
137 Matheson............	Cochrane............	344	4	61,892	97	24
138 Nesterville..........	Algoma..............	325	1	34,007	48	48
139 Latchford............	Timiskaming..........	325	2	39,018	73	37
140 Kearney.............	Parry Sound..........	265	2	27,234	56	28
141 Charlton............	Timiskaming..........	201	3	32,360	69	23
142 Frood Mine...........	Sudbury.............	175	1	169,802	19	19
Totals and Averages,	Group D.............	7,993	43	68,884	1,309	30
Grand Totals and Aver	ages—All Towns.......	471,162	1,609	148,316	54,274	34

COUNTIES—Group A—Towns with population over 6,000.
" B— " " " " 4,000 and under 6,000.
" C— " " " " 2,000 " " 4,000.
" D— " " " under 2,000.

Villages	County	Assessed Population J	No. of Class-rooms	Assessment per Class-room B	A.D.A. c for the Calendar year	A.D.A. c per Class-room
GROUP A				$		
1 Forest Hill............	York.................	10,208	34	392,089	1,056	31
2 Swansea..............	York.................	5,831	20	173,000	596	30
3 Rockcliffe Park........	Carleton.............	1,162	5	473,324	106	21
Totals and Averages,	Group A.............	17,201	59	324,707	1,758	30
GROUP B						
4 Long Branch...........	York.................	4,029	20	79,585	745	38
5 Fergus...............	Wellington...........	2,785	10	171,878	385	39
6 Humberstone..........	Welland..............	2,629	14	53,370	480	34
Totals and Averages,	Group B.............	9,443	44	92,219	1,610	37
GROUP C						
7 Acton................	Halton...............	1,916	8	161,598	255	32
8 Morrisburg............	Dundas..............	1,819	6	120,179	212	35
9 Port Credit............	Peel.................	1,751	8	162,791	275	34
10 Delhi................	Norfolk..............	1,677	7	213,105	257	37
11 Exeter...............	Huron...............	1,652	6	120,350	195	33
12 Port Dover............	Norfolk..............	1,640	7	222,037	241	34
13 Port Dalhousie.........	Lincoln..............	1,565	6	91,957	185	31
14 Cardinal..............	Grenville............	1,529	6	82,390	251	42
15 New Hamburg.........	Waterloo............	1,441	6	150,667	200	33
16 Caledonia.............	Haldimand...........	1,410	6	41,667	182	30
17 Brighton..............	Northumberland......	1,366	6	118,567	191	32
18 Lakefield.............	Peterborough.........	1,332	6	94,868	218	36
19 Hagersville............	Haldimand...........	1,307	6	77,333	218	36
20 Port Elgin.............	Bruce...............	1,293	5	85,638	167	33
21 Tweed................	Hastings............	1,256	6	135,520	185	31
22 Richmond Hill.........	York................	1,241	7	96,914	243	35
23 Waterford.............	Norfolk..............	1,238	5	183,350	173	35
24 Norwich..............	Oxford..............	1,212	5	121,160	162	32
25 Madoc................	Hastings............	1,210	6	88,605	202	34
26 Kemptville............	Grenville............	1,204	5	65,000	169	34
27 Chippawa.............	Welland..............	1,186	5	145,328	171	34
28 Havelock.............	Peterborough.........	1,164	6	51,035	182	30
29 Point Edward..........	Lambton.............	1,161	5	67,761	171	34
30 Elora................	Wellington...........	1,149	5	133,265	163	33
31 Beamsville............	Lincoln..............	1,121	5	144,400	166	33
32 Port Perry............	Ontario..............	1,118	5	129,244	156	31
33 Markham.............	York................	1,116	4	109,997	116	29

SCHOOLS

STATISTICS, 1937

	Major Sources of Receipts		Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness H	
	School District Levy E	Legislative Grant	Current F	Capital G	Current	Capital	Total	Amount	Per $1,000 of Assessment B
	$	$	$	$				$	$ c.
127	1,790	246	2,151	....	17.7	....	17.7	....	......
128	11,542	624	9,644	3,609	42.2	15.8	58.0	44,700	114.37
129	3,331	1,505	4,451	1,308	15.2	4.5	19.7	15,693	54.39
130	3,816	818	3,006	1,816	14.7	8.7	23.4	30,875	121.35
131	1,954	1,097	2,994	154	20.4	1.5	21.9	463	5.08
132	3,137	1,308	3,945	....	21.6	....	21.6	....	......
133	3,066	1,681	4,760	....	24.2	....	24.2	....	......
134	2,706	911	3,522	1,211	18.5	6.4	24.9	18,162	74.78
135	1,212	1,036	2,235	....	17.8	....	17.8	....	......
136	3,000	535	3,468	....	29.4	....	29.4	....	......
137	5,246	1,876	6,541	299	36.0	16.5	52.5	1,698	6.84
138	600	280	828	....	8.8	....	8.8	....	......
139	2,632	1,195	2,792	....	19.9	....	19.9	....	......
140	1,021	1,201	2,245	....	21.6	....	21.6	....	......
141	2,853	3,269	5,723	....	42.5	....	42.5	....	......
142	2,549	116	1,490	....	40.0	....	40.0	....	......
	50,455	17,698	59,795	8,397	23.9	3.3	27.2	111,591	37.68
	2,557,380	232,053	2,402,320	375,079	23.8	4.1	27.9	5,240,076	21.96

Districts—Group A—Towns with population over 10,000.
" B— " " " " 2,000 and under 10,000.
" C— " " " " 1,000 " " 2,000.
" D— " " " under 1,000.

	Major Sources of Receipts		Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness	
	School District Levy E	Legislative Grant	Current F	Capital G	Current	Capital	Total	Amount	Per $1,000 of Assessm't
	$	$	$	$				$	$ c.
1	130,430	4,303	90,828	37,214	52.8	21.6	74.4	473,793	35.52
2	47,473	6,393	41,223	11,521	41.1	11.5	52.6	106,978	30.91
3	14,103	699	13,463	1,100	67.3	5.5	72.8	59,611	25.19
	192,006	11,395	145,514	49,835	49.8	17.1	66.9	640,382	33.43
4	41,774	4,570	29,605	16,800	23.7	13.4	37.1	158,000	99.27
5	11,000	1,416	12,650	....	16.9	....	16.9	....	......
6	22,647	5,582	20,600	7,497	23.4	8.5	31.9	56,216	75.24
	75,421	11,568	62,855	24,297	21.9	8.4	30.3	214,216	52.79
7	9,094	1,059	9,919	423	19.9	.8	20.7	2,253	1.74
8	7,910	1,258	7,896	....	20.7	....	20.7	....	......
9	18,365	2,036	14,996	5,231	32.5	11.3	43.8	47,862	36.75
10	9,400	1,113	8,243	....	16.5	....	16.5	....	......
11	2,587	847	6,685	....	18.0	....	18.0	....	......
12	7,413	833	7,725	1,573	17.6	3.6	21.2	8,387	5.40
13	5,964	1,740	9,372	....	27.0	....	27.0	....	......
14	5,397	1,465	6,884	....	14.8	....	14.8	....	......
15	6,299	886	7,308	385	18.8	.9	19.7	1,926	2.14
16	5,457	2,314	7,659	....	23.3	....	23.3	....	......
17	6,790	1,009	6,876	1,290	18.0	3.3	21.3	13,534	19.02
18	8,800	1,938	8,128	....	19.2	....	19.2	....	......
19	5,920	2,196	8,023	....	19.0	....	19.0	....	......
20	5,780	882	6,578	....	22.3	....	22.3	....	......
21	9,257	3,792	12,204	872	36.1	2.5	38.6	4,287	5.27
22	12,095	1,806	10,612	2,295	25.7	4.7	30.4	10,365	15.27
23	5,865	858	7,081	....	21.1	....	21.1	....	......
24	5,397	949	7,096	....	22.3	....	22.3	....	......
25	5,016	2,020	7,795	....	20.3	....	20.3	....	......
26	5,212	2,693	6,792	1,712	20.7	5.2	25.9	19,341	59.52
27	8,929	1,161	9,235	1,029	27.8	3.1	30.9	3,113	4.28
28	4,365	2,278	6,106	504	17.3	1.4	18.7	3,572	11.66
29	8,556	1,502	7,749	2,259	23.3	6.8	30.1	6,796	20.06
30	5,475	871	5,950	497	18.9	1.6	20.5	2,380	3.57
31	6,293	983	7,302	....	22.7	....	22.7	....	......
32	6,955	845	6,262	1,755	20.8	5.8	26.6	19,654	30.41
33	3,660	447	3,996	30	17.7	.1	17.8	906	2.05

THE PUBLIC

TABLE 21—FINANCIAL

Villages	County	Assessed Population J	No. of Class-rooms	Assess-ment per Class-room B	A.D.A. c for the Calendar year	A.D.A. c per Class-room
GROUP C—(*Cont.*)				$		
34 Stouffville	York	1,115	5	108,748	145	29
35 Shelburne	Dufferin	1,099	4	142,548	119	30
36 Victoria Harbour	Simcoe	1,092	6	24,500	201	34
37 Chesterville	Dundas	1,068	4	112,419	138	35
38 Eganville	Renfrew	1,066	3	123,723	97	32
39 Fenelon Falls	Victoria	1,061	4	134,492	128	32
40 Barry's Bay	Renfrew	1,051	1	46,213	23	23
41 Iroquois	Dundas	1,050	5	127,187	99	20
42 Winchester	Dundas	1,041	5	129,501	169	34
43 Tavistock	Oxford	1,037	4	140,223	123	31
44 Lucknow	Bruce	1,036	4	80,438	126	32
45 Arthur	Wellington	1,035	4	175,985	112	28
46 Marmora	Hastings	1,014	5	45,963	143	29
47 Milverton	Perth	1,006	4	160,289	126	32
48 Bradford	Simcoe	988	3	189,973	116	39
49 Bobcaygeon	Victoria	985	4	131,831	139	35
50 Bancroft	Hastings	983	6	34,950	206	34
51 Watford	Lambton	975	4	100,750	128	32
52 Colborne	Northumberland	964	4	135,028	143	36
53 Beaverton	Ontario	949	4	117,115	132	33
54 Stirling	Hastings	938	4	123,664	133	33
55 L'Orignal	Prescott	928	7	25,160	165	23
56 Port McNicoll	Simcoe	911	7	84,714	133	19
57 Wellington	Prince Edward	907	6	276,116	134	22
58 Waterdown	Wentworth	885	4	255,434	207	51
59 Sutton	York	852	5	....	183	37
60 Stoney Creek	Wentworth	847	6	....	201	33
61 Frankford	Hastings	838	4	81,549	146	36
62 Teeswater	Bruce	838	3	95,325	78	26
63 Woodbridge	York	831	4	100,261	146	36
64 Fonthill	Welland	829	5	101,449	152	31
65 Portsmouth	Frontenac	826	2	91,528	85	43
66 Thamesville	Kent	814	4	124,742	123	31
67 Belle River	Essex	810	1	159,403	9	9
68 Glencoe	Middlesex	810	4	179,776	126	31
69 Dutton	Elgin	807	4	193,624	114	29
70 West Lorne	Elgin	784	4	161,032	144	36
71 Markdale	Grey	781	4	83,141	102	25
72 Brussels	Huron	780	3	123,030	81	27
73 Merrickville	Grenville	776	4	68,750	118	29
74 Paisley	Bruce	773	3	121,373	105	35
75 Cannington	Ontario	764	3	139,276	93	31
76 Hastings	Northumberland	762	2	134,730	100	50
77 Maxville	Glengarry	758	4	91,036	106	26
78 Ayr	Waterloo	755	3	139,000	81	27
Totals and Averages,	Group C	78,293	341	121,587	10,984	32
GROUP D						
79 Mildmay	Bruce	746	2	77,648	59	30
80 Wheatley	Kent	744	4	214,954	133	33
81 Port Stanley	Elgin	741	4	248,186	94	24
82 Rodney	Elgin	722	3	212,524	101	34
83 Norwood	Peterborough	716	5	89,217	131	26
84 Westport	Leeds	710	2	90,661	58	29
85 Millbrook	Durham	704	3	122,709	97	32
86 Lanark	Lanark	702	3	64,798	102	34
87 Athens	Leeds	691	4	56,995	92	23
88 Newcastle	Durham	690	3	106,100	69	23
89 Hensall	Huron	680	3	111,933	79	26
90 Streetsville	Peel	672	4	75,515	135	34
91 Dundalk	Grey	666	3	104,833	93	31
92 Bloomfield	Prince Edward	666	3	220,956	78	26
93 Cayuga	Haldimand	664	4	33,750	98	25
94 Port Rowan	Norfolk	659	3	167,743	78	26
95 Blyth	Huron	652	3	105,917	71	24
96 Alvinston	Lambton	650	3	100,633	85	28
97 Creemore	Simcoe	632	3	151,083	67	22
98 Killaloe Station	Renfrew	628	2	48,962	43	22
99 Cobden	Renfrew	621	4	96,859	103	26
100 Lucan	Middlesex	614	2	133,500	91	46

SCHOOLS

STATISTICS, 1937

	Major Sources of Receipts		Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness H	
	School District Levy E	Legislative Grant	Current F	Capital G	Current	Capital	Total	Amount	Per $1,000 of Assessm't
	$	$	$	$				$	$ c.
34	6,589	913	5,953	1,799	21.0	6.3	27.3	10,216	18.79
35	5,350	472	5,937	520	25.8	2.3	28.1	9,889	17.34
36	3,275	3,209	6,707	......	17.2	......	17.2	......	......
37	4,001	757	5,069	......	19.5	......	19.5	......	......
38	4,065	451	3,295	2,210	17.6	11.8	29.4	13,783	37.13
39	4,186	537	3,808	......	15.8	......	15.8	......	......
40	616	134	626	......	14.0	......	14.0	......	......
41	5,697	598	5,550	554	29.1	2.9	32.0	2,000	3.14
42	7,401	946	5,889	1,952	18.0	6.0	24.0	23,418	36.17
43	4,709	549	5,326	......	22.7	......	22.7	......	......
44	4,891	758	4,557	1,101	19.0	4.6	24.6	2,047	6.36
45	3,122	416	4,344	......	20.1	......	20.1	......	......
46	3,663	1,596	6,285	......	20.1	......	20.1	......	......
47	3,784	1,030	4,968	......	20.8	......	20.8	......	......
48	3,850	466	4,589	......	21.8	......	21.8	......	......
49	3,683	849	5,054	......	19.3	......	19.3	......	......
50	4,928	2,352	4,863	628	12.1	1.6	13.7	8,786	41.90
51	4,200	617	4,452	474	18.1	1.9	20.0	3,099	7.69
52	3,570	701	4,686	......	16.9	......	16.9	......	......
53	4,775	308	4,199	1,871	17.1	7.6	24.7	29,901	63.82
54	4,813	907	5,157	613	19.9	2.3	22.2	1,660	3.35
55	1,600	2,397	4,780	......	15.3	......	15.3	......	......
56	8,000	2,351	10,266	......	26.1	......	26.1	......	......
57	12,919	3,636	11,378	5,504	27.8	13.5	41.3	88,064	53.16
58	5,900	765	6,664	6,490	25.6	25.0	50.6	32,451	31.76
59	4,251	537	5,634	......	14.5	......	14.5	......	......
60	8,907	1,339	9,612	......	24.7	......	24.7	......	......
61	4,366	850	4,411	2,064	15.5	7.2	22.7	21,445	65.74
62	5,809	442	3,009	2,616	10.5	9.2	19.7	11,632	40.67
63	2,950	1,217	5,412	......	19.5	......	19.5	......	......
64	5,922	1,127	7,536	585	26.1	2.0	28.1	1,594	3.15
65	2,573	585	2,560	......	16.6	......	16.6	......	......
66	4,746	744	4,579	1,046	19.3	4.4	23.7	5,225	10.48
67	1,775	75	1,257	......	71.3	......	71.3	......	......
68	3,493	424	4,611	500	18.8	2.0	20.8	26,400	36.71
69	4,314	483	4,351	......	19.8	......	19.8	......	......
70	3,705	635	4,152	......	15.2	......	15.2	......	......
71	4,354	1,316	5,466	......	30.2	......	30.2	......	......
72	2,600	563	3,744	......	24.6	......	24.6	......	......
73	3,787	954	4,447	1,187	19.4	5.2	24.6	12,459	45.31
74	4,390	637	3,643	1,301	17.4	6.2	23.6	7,528	20.67
75	3,430	434	3,231	637	18.6	3.7	22.3	2,795	6.64
76	2,286	396	2,810	......	14.8	......	14.8	......	......
77	3,862	676	3,903	......	20.3	......	20.3	......	......
78	3,397	356	3,739	802	22.5	4.8	27.3	4,900	11.75
	392,755	81,286	436,981	54,309	15.2	2.6	17.8	463,668	11.18
79	1,365	540	1,977	......	18.4	......	18.4	......	......
80	2,701	390	3,937	......	15.7	......	15.7	......	......
81	5,813	731	6,414	......	36.0	......	36.0	......	......
82	2,805	323	3,008	......	16.0	......	16.0	......	......
83	2,791	1,377	6,058	......	23.8	......	23.8	......	......
84	2,280	476	2,530	......	22.1	......	22.1	......	......
85	3,981	556	3,975	......	21.1	......	21.1	......	......
86	1,453	641	2,755	......	13.3	......	13.3	......	......
87	3,300	758	4,506	......	25.0	......	25.0	......	......
88	3,258	702	3,819	......	28.4	......	28.4	......	......
89	2,587	502	3,089	......	22.2	......	22.2	......	......
90	5,571	763	5,640	......	21.6	......	21.6	......	......
91	3,300	867	4,325	......	24.1	......	24.1	......	......
92	3,620	459	3,491	......	22.7	......	22.7	3,000	4.53
93	4,021	2.283	5,609	651	31.5	3.6	35.1	1,826	13.52
94	1,866	301	2,716	......	18.0	......	18.0	......	......
95	2,339	366	2,743	......	20.8	......	20.8	......	......
96	2,930	299	2,833	357	18.2	2.3	20.5	8,210	27.19
97	4,140	306	3,338	712	28.0	6.0	34.0	6,669	14.71
98	1,394	430	1,361	669	16.6	7.9	24.5	8,033	82.03
99	4,459	1,717	6,929	......	35.4	......	35.4	......	......
100	1,875	280	2,753	......	16.7	......	16.7	......	......

THE PUBLIC

TABLE 21—FINANCIAL

Villages	County	Assessed Population J	No. of Class-rooms	Assessment per Class-room B	A.D.A. C for the Calendar year	A.D.A. C per Class-room
GROUP D—(*Cont.*)				$		
101 Grand Valley	Dufferin	600	3	115,845	76	25
102 Omemee	Victoria	598	2	224,615	90	45
103 Thedford	Lambton	593	2	78,500	82	41
104 Coldwater	Simcoe	589	4	63,000	135	34
105 Lancaster	Glengarry	588	2	95,112	43	22
106 Bolton	Peel	567	3	130,387	72	24
107 Beeton	Simcoe	555	3	127,200	94	31
108 Drayton	Wellington	551	2	213,729	67	34
109 Wyoming	Lambton	528	2	79,750	60	30
110 Tottenham	Simcoe	526	3	102,629	76	25
111 Jarvis	Haldimand	505	3	60,000	98	33
112 Erin	Wellington	481	2	209,287	70	35
113 Braeside	Renfrew	479	3	70,425	92	31
114 Ailsa Craig	Middlesex	472	2	137,663	52	26
115 Tara	Bruce	472	2	101,984	54	27
116 Oil Springs	Lambton	470	2	68,500	59	30
117 Newburgh	Lennox	468	2	58,991	61	31
118 Flesherton	Grey	447	2	105,560	61	31
119 Clifford	Wellington	446	2	184,172	68	34
120 Neustadt	Grey	441	3	66,943	105	35
121 Ripley	Bruce	432	2	151,369	39	20
122 Embro	Oxford	428	2	126,450	56	28
123 Richmond	Carleton	419	2	84,953	50	25
124 Woodville	Victoria	418	2	44,645	47	24
125 Arkona	Lambton	406	2	72,750	70	35
126 Lion's Head	Bruce	398	2	60,130	71	36
127 Springfield	Elgin	378	3	144,905	73	24
128 Hepworth	Bruce	376	2	44,645	57	29
129 Finch	Stormont	371	2	111,878	79	40
130 Shallow Lake	Grey	355	2	63,549	66	33
131 Bath	Lennox	346	2	55,500	44	22
132 Newboro	Leeds	376	2	62,443	67	34
133 Courtright	Lambton	334	2	96,520	54	27
134 Chatsworth	Grey	321	2	84,634	43	22
135 Deloro	Hastings	288	2	36,136	53	27
136 Newbury	Middlesex	279	2	105,356	32	16
137 Erieau	Kent	273	2	101,000	42	21
138 Tiverton	Bruce	260	1	160,134	39	39
139 Wardsville	Middlesex	243	2	108,948	37	19
140 Vienna	Elgin	205	2	77,619	44	22
141 St. Clair Beach	Essex	110	1	561,756	36	36
Totals and Averages,	Group D	32,362	160	108,495	4,571	29
GROUP E	District					
142 South River	Parry Sound	827	5	52,805	159	32
143 Burk's Falls	Parry Sound	742	4	94,083	150	38
144 Sundridge	Parry Sound	543	3	77,182	125	41
145 Port Carling	Muskoka	506	3	119,142	76	25
146 Rosseau	Parry Sound	300	2	65,149	36	18
147 Hilton Beach	Algoma	207	2	29,455	48	24
148 Thornloe	Timiskaming	131	1	14,766	16	16
149 Windermere	Muskoka	128	1	83,723	16	16
150 Port Sydney	Muskoka	109	2	31,985	26	13
Totals and Averages,	Group E	3,493	23	64,404	652	28
Totals and Averages, All Villages		140,792	627	133,201	19,575	31
Totals and Averages, All Urban		2,179,666	6,928	289,748	244,823	35
Grand Totals and Averages		11,234,567	14,140	202,894	403,423	29

County Villages: Group A—Suburban Villages.
" B—Villages with population over 2,000.
" C— " " " from 750 to 2,000.
" D— " " " under 750.
District Villages: Group E

A Ordinary schools limited to those with less than six teachers.
B Figure is Local Assessment for the Districts (and all municipalities therein), all Cities, and the seven Separated Towns—Equalized Assessment in all other cases.
C Average Daily Attendance
D In default.

SCHOOLS

STATISTICS, 1937

	Major Sources of Receipts		Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness H	
	School District Levy E	Legislative Grant	Current F	Capital G	Current	Capital	Total	Amount	Per $1,000 of Assessm't
	$	$	$	$				$	$ c.
101	2,364	394	3,063	....	20.8	......	20.8	....	......
102	2,618	290	2,891	299	17.4	.8	18.2	299	.67
103	1,150	332	1,735	....	10.9	......	10.9	....	......
104	3,650	1,001	4,735	....	18.0	......	18.0	....	......
105	882	377	2,199	....	26.9	......	26.9	....	......
106	2,388	443	3,178	....	22.4	......	22.4	....	......
107	2,148	422	3,444	654	19.8	3.7	23.5	6,350	16.69
108	2,352	234	2,595	....	20.2	......	20.2	....	......
109	2,200	455	2,573	....	22.5	......	22.5	....	......
110	3,124	460	3,126	....	23.4	......	23.4	....	......
111	4,950	1,790	3,374	1,618	22.8	10.9	23.7	22,169	123.16
112	3,938	230	2,672	1,565	20.6	12.1	32.7	12,340	29.48
113	2,960	576	3,228	....	18.2	......	18.2	....	......
114	2,166	210	2,196	466	23.2	4.4	27.6	5,580	20.27
115	1,300	302	2,530	....	24.7	......	24.7	....	......
116	1,430	554	2,606	....	23.4	......	23.4	....	......
117	1,600	518	2,093	....	17.7	......	17.7	....	......
118	2,525	529	2,808	....	27.1	......	27.1	....	......
119	2,023	216	1,836	423	13.9	3.2	17.1	3,580	9.72
120	1,880	1,119	3,236	....	15.7	......	15.7	....	......
121	2,100	217	2,145	....	28.5	......	28.5	....	......
122	1,625	232	2,038	....	18.7	......	18.7	....	......
123	2,343	198	1,957	743	15.3	......	15.3	12,598	111.82
124	3,000	224	2,293	....	25.6	......	25.6	....	......
125	1,125	771	1,878	....	14.0	......	14.0	....	......
126	1,474	454	1,944	....	14.0	......	14.0	....	......
127	3,798	175	3,061	1,799	22.2	13.1	35.3	17,992	41.38
128	1,500	579	1,963	....	17.7	......	17.7	....	......
129	2,110	237	2,387	....	16.0	......	16.0	....	......
130	1,736	563	1,981	....	15.5	......	15.5	....	......
131	1,500	488	2,123	....	25.0	......	25.0	....	......
132	1,471	810	2,583	....	22.9	......	22.9	....	......
133	1,197	341	2,043	....	19.5	......	19.5	....	......
134	2,136	335	2,494	....	29.2	......	29.2	....	......
135	2,200	1,086	3,267	....	31.2	......	31.2	....	......
136	841	208	1,765	....	14.8	......	14.8	....	......
137	3,158	558	3,043	758	37.6	9.4	47.0	5,308	26.28
138	900	177	1,287	....	17.2	......	17.2	....	......
139	204	180	1,445	....	20.6	......	20.6	....	......
140	1,959	278	2,102	....	26.4	......	26.4	....	......
141	898	69	1,085	....	15.8	......	15.8	....	......
	152,772	33,699	184,808	10,714	21.2	1.2	22.4	113,954	6.5
142	6,632	2,301	4,965	4,332	16.3	14.2	30.5	5,132	19.44
143	4,934	1,452	6,306	....	21.7	......	21.7	....	......
144	2,779	1,851	4,557	....	20.4	......	20.4	....	......
145	3,921	411	3,377	1,221	25.2	9.1	34.3	9,765	27.33
146	1,881	957	3,079	....	44.4	......	44.4	....	......
147	1,335	725	2,072	335	22.6	3.7	26.3	3,681	62.48
148	266	781	1,075	....	36.2	......	36.2	....	......
149	1,700	582	1,324	....	42.0	......	42.0	....	......
150	1,033	520	1,854	....	41.2	......	41.2	....	......
	24,481	9,580	28,609	5,888	23.4	4.8	28.2	18,578	12.54
	831,165	147,528	858,767	138,103	23.4	3.8	27.2	1,029,578	12.33
	17,312,618	885,473	15,196,971	2,904,270	33.9	6.6	40.5	34,944,784	17.45
	21,118,455	3,048,392	23,208,552	3,444,068	31.1	4.6	35.7	44,003,140	15.41

E Includes debenture levy.
F General Maintenance.
G Debenture Charges.
H Including any arrears.
I Exclusive of those in default.
J Includes both Public and Roman Catholic Separate School supporters.
K Partial payment.
L In addition, all arrears, totalling $65,206, were paid off.
M Of this, $4,128 is for Protestant Separate School, and $6,094 for Roman Catholic Public School. Against the latter debt there is a reserve of $3,387.

THE PUBLIC SCHOOLS

INDEX TO TABLE 21—FINANCIAL STATISTICS, 1937

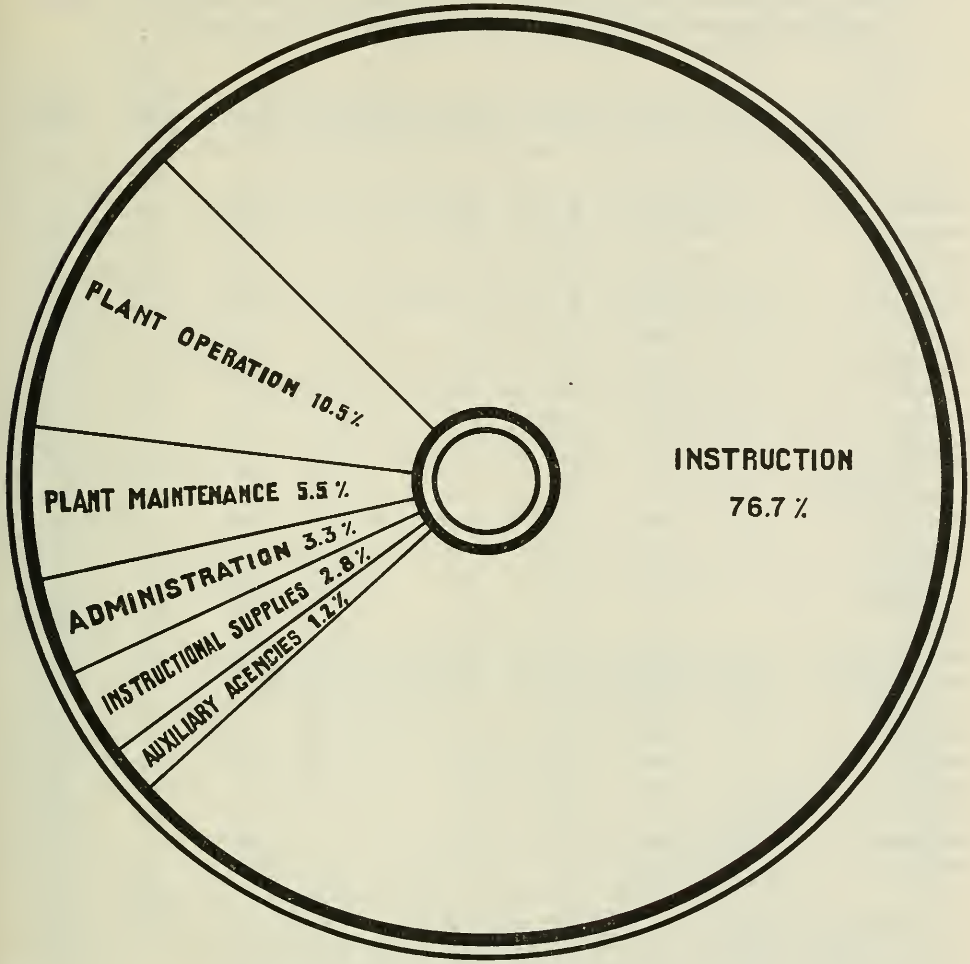
TOWNS

Alexandria	75
Alliston	90
Almonte	63
Amherstburg	51
Arnprior	36
Aurora	55
Aylmer	70
Bala	136
Barrie	6
Blenheim	81
Blind River	114
Bothwell	100
Bowmanville	40
Bracebridge	113
Brampton	19
Brockville	3
Bruce Mines	134
Burlington	43
Cache Bay	127
Campbellford	50
Capreol	119
Carleton Place	33
Charlton	141
Chesley	79
Clinton	76
Cobalt	109
Cobourg	24
Cochrane	108
Collingwood	20
Coniston	115
Copper Cliff	105
Cornwall	1
Deseronto	92
Dresden	88
Dryden	120
Dundas	27
Dunnville	38
Durham	77
Eastview	9
Elmira	69
Englehart	125
Essex	78
Forest	87
Fort Erie	18
Fort Frances	103
Frood Mine	142
Gananoque	44
Georgetown	65
Goderich	31
Gore Bay	130
Gravenhurst	116
Grimsby	71
Haileybury	112
Hanover	47
Harriston	93
Harrow	97
Hawkesbury	16
Hearst	132
Hespeler	54
Huntsville	111
Ingersoll	23
Iroquois Falls	123
Kapuskasing	107
Kearney	140
Keewatin	122
Kenora	102
Kincardine	61
Kingsville	62
La Salle	98
Latchford	139
Leamington	21
Leaside	59
Lindsay	8
Listowel	53
Little Current	126
Massey	131
Matheson	137
Mattawa	117
Meaford	56
Merritton	58
Midland	12
Milton	80
Mimico	11
Mitchell	85
Mount Forest	74
Napanee	48
Nesterville	138
New Liskeard	110
Newmarket	45
New Toronto	10
Niagara	84
Oakville	39
Orangeville	60
Orillia	4
Palmerston	89
Paris	32
Parkhill	96
Parry Sound	106
Pembroke	2
Penetanguishene	35
Perth	34
Petrolia	57
Picton	46
Port Colborne	15
Port Hope	29
Powassan	129
Prescott	52
Preston	14
Rainy River	124
Renfrew	22
Ridgetown	73
Riverside	25
Rockland	67
St. Mary's	37
Seaforth	83
Simcoe	17
Sioux Lookout	118
Smith's Falls	7
Smooth Rock Falls	128
Southampton	94
Stayner	95
Sturgeon Falls	104
Strathroy	49
Tecumseh	66
Thessalon	121
Thornbury	99
Thorold	28
Tilbury	72
Tillsonburg	41
Timmins	101
Trenton	13
Trout Creek	135
Uxbridge	86
Vankleek Hill	91
Walkerton	64
Wallaceburg	30
Waterloo	5
Webbwood	133
Weston	26
Whitby	42
Wiarton	82
Wingham	68

VILLAGES

Acton	7
Ailsa Craig	114
Alvinston	96
Arkona	125
Arthur	45
Athens	87
Ayr	78
Bancroft	50
Barry's Bay	40
Bath	131
Beamsville	31
Beaverton	53
Beeton	107
Belle River	67
Bloomfield	92
Blyth	95
Bobcaygeon	49
Bolton	106
Bradford	48
Braeside	113
Brighton	17
Brussels	72
Burk's Falls	143
Caledonia	16
Cannington	75
Cardinal	14
Cayuga	93
Chatsworth	134
Chesterville	37
Chippawa	27
Clifford	119
Cobden	99
Colborne	52
Coldwater	104
Courtright	133
Creemore	97
Delhi	9
Deloro	135
Drayton	108
Dundalk	91
Dutton	69
Eganville	38
Elora	30
Embro	122
Erieau	137
Erin	112
Exeter	11
Fenelon Falls	39
Fergus	5
Finch	129
Flesherton	118
Fonthill	64
Forest Hill	1
Frankford	61
Glencoe	68
Grand Valley	101
Hagersville	19
Hastings	76
Havelock	28
Hensall	89
Hepworth	128
Hilton Beach	147
Humberstone	6
Iroquois	41
Jarvis	111
Kemptville	26
Killaloe	98
Lakefield	18
Lanark	86
Lancaster	105
Lion's Head	126
Long Branch	4
L'Orignal	55
Lucan	100
Lucknow	44
Madoc	25
Markdale	71
Markham	33
Marmora	46
Maxville	77
Merrickville	73
Mildmay	79
Millbrook	85
Milverton	47
Morrisburg	8
Neustadt	120
Newboro	132
Newburgh	117
Newbury	136
Newcastle	88
New Hamburg	15
Norwich	24
Norwood	83
Oil Springs	116
Omemee	102
Paisley	74
Point Edward	29
Port Carling	145
Port Credit	9
Port Dalhousie	13
Port Dover	12
Port Elgin	20
Port McNicol	56
Port Perry	32
Port Rowan	94
Port Stanley	81
Port Sydney	150
Portsmouth	65
Richmond	123
Richmond Hill	22
Ripley	121
Rockcliffe Park	3
Rodney	82
Rosseau	146
St. Clair Beach	141
Shallow Lake	130
Shelburne	35
South River	142
Springfield	127
Stirling	54
Stoney Creek	60
Stouffville	34
Streetsville	90
Sundridge	144
Sutton	59
Swansea	2
Tara	115
Tavistock	43
Teeswater	62
Thamesville	66
Thedford	103
Thornloe	148
Tiverton	138
Tottenham	110
Tweed	21
Victoria Harbour	36
Vienna	140
Wardsville	139
Waterdown	58
Waterford	23
Watford	51
Wellington	57
West Lorne	70
Westport	84
Wheatley	80
Winchester	42
Windermere	149
Woodbridge	63
Woodville	124
Wyoming	109

PERCENTAGE ANALYSIS OF CURRENT EXPENDITURES—CITIES, 1937



Graph 6.

CLASSIFICATION OF CURRENT EXPENDITURES

1. **Cost of Instruction**—Actual payments made for salaries and expenses of Inspectors, Supervisors, Principals and Teachers (regular, supply and special).

2. **Cost of Instructional Supplies**—Pupils' supplies, teachers' supplies, text books, library books, maps, blackboards.

3. **Cost of Administration**—Salaries, office supplies and expenses of Administrator, Secretary-Treasurer, Attendance Officers and Auditor; expenses of Principals' offices in schools; upkeep of administration buildings, legal fees, expenses for O.E.A. and Teachers' Institute, interest on temporary loans and charges for renewal.

4. **Cost of School Plant Operation**—Salaries, expenses and supplies of caretaker and engineer, fuel, gas, water, electricity, telephone, rent.

5. **Cost of School Plant Maintenance**—Repairs to buildings and care of grounds, repairs and annual additions to school furniture, bookcases, etc., care of portable buildings, temporary class rooms, insurance.

6. **Cost of Auxiliary Agencies**—Medical, dental and nursing services, student organizations, recreational equipment, transportation of pupils, school fairs and exhibitions, hot lunches, contributions, prizes, scholarships, medals, cadet corps.

THE PUBLIC SCHOOLS

TABLE 22—PERCENTAGE ANALYSIS OF CURRENT EXPENSES IN CITIES, AND IN TOWNS OVER 6,000 POPULATION, FOR THE YEAR 1937

Cities	Assessed Population	Teachers' Salaries	Plant Operation	Plant Maintenance	Administration	Instructional Equipment	Auxiliary Agencies
Toronto	648,309	77.4	9.1	6.1	4.5	2.6	.3
Hamilton	153,527	82.3	10.4	3.1	2.1	2.0	.1
Ottawa	142,852	80.8	8.4	4.1	1.7	2.4	2.6
Windsor	102,704	69.4	14.7	6.2	2.9	3.4	3.4
London	74,281	70.7	10.8	7.8	2.5	3.9	4.3
Kitchener	32,550	76.5	11.1	4.4	2.3	4.1	1.6
Brantford	31,282	75.7	12.5	6.1	1.4	4.2	.1
St. Catharines	27,426	71.7	11.8	5.6	2.4	4.4	3.1
Sudbury	26,315	73.6	14.1	4.7	2.4	3.2	2.0
Oshawa	24,844	76.2	14.4	5.4	1.9	1.7	.4
Kingston	24,331	70.8	12.9	9.2	2.4	2.9	1.8
Fort William	24,020	78.7	13.3	2.0	1.4	2.2	2.4
Sault Ste. Marie	23,627	72.1	16.4	3.8	2.7	2.5	2.5
Peterborough	23,450	73.8	11.0	6.5	1.8	3.3	3.6
Guelph	21,333	73.5	13.3	6.4	3.3	3.3	.2
Port Arthur	20,302	69.8	15.1	8.2	2.3	3.7	.9
Niagara Falls	18,747	74.2	12.6	6.6	2.3	1.4	2.9
Sarnia	18,155	75.7	13.5	4.4	2.7	3.2	.5
Stratford	17,615	76.3	15.6	3.3	1.5	2.6	.7
St. Thomas	16,208	73.6	13.1	6.9	2.1	3.6	.7
Chatham	16,153	80.8	8.2	3.1	2.3	3.3	2.3
North Bay	15,287	73.3	21.4	2.1	1.4	1.8	....
Belleville	14,560	73.1	12.4	4.8	2.9	3.9	2.9
Galt	14,410	74.7	13.0	3.9	1.8	3.0	3.6
Owen Sound	13,118	71.9	12.5	3.6	2.2	2.8	7.0
Woodstock	11,382	74.6	15.1	2.8	2.0	5.1	.4
Welland	10,924	70.9	16.0	5.8	2.3	3.0	2.0
Averages	....	76.7	10.5	5.5	3.3	2.8	1.2
Towns							
Cornwall	12,870	82.1	14.2	.7	2.0	.7	.3
Pembroke	10,364	65.3	16.0	9.5	2.6	3.7	2.9
Brockville	9,983	68.5	13.5	7.5	.8	7.4	2.3
Orillia	8,704	69.5	17.3	7.5	2.0	3.2	.5
Waterloo	8,425	72.7	11.2	8.0	1.6	3.8	2.7
Barrie	8,135	70.0	16.7	5.2	1.5	4.2	2.4
Smith's Falls	7,626	80.2	11.8	3.3	2.0	.8	1.9
Lindsay	7,294	80.6	14.6	2.3	1.0	1.3	.2
Eastview	7,275	65.0	20.4	7.8	2.0	3.5	1.3
New Toronto	7,095	67.0	15.4	6.9	3.0	3.9	3.8
Mimico	6,940	74.5	12.6	5.5	2.3	1.4	3.7
Midland	6,669	71.2	16.1	4.0	4.2	2.6	1.9
Trenton	6,480	73.6	17.1	2.9	1.7	2.2	2.5
Preston	6,415	75.5	13.8	5.0	1.3	2.7	1.7
Port Colborne	6,348	74.4	10.1	7.0	4.5	4.0	....
Averages	....	72.6	14.2	5.8	2.2	3.2	2.0

THE PUBLIC SCHOOLS

TABLE 23—CONSOLIDATED SCHOOLS, 1937-38

No.	Consolidated School	County or District	Sections Consolidated	Assessment	No. of Teachers	Grade of Certificate I	Grade of Certificate II	Enrolment	No. Conveyed	Average Attendance	Attendance Efficiency Percentage	No. in Fifth Class	No. in Continuation School
1	Barwick	Rainy River	4, 11, 12 Barwick	$101,090	3	2	1	85	20	64	94.2	8	....
2	Burriss	Rainy River	1, 2 Burriss	99,420	3	3	......	59	59	48	87.1	7	....
3	Byng Inlet	Parry Sound	2 Wallbridge, 1 Henvey	64,215	3	3	......	125	32	116	90.5	9	....
4	Charlton	Temiskaming	2, 4 Dack, Charlton Town	97,081	3	1	2	97	50	68	85.9	5	....
5	Dorion	Thunder Bay	1, 2, 3 Dorion	87,119	3	3	......	95	83	75	81.5	3	....
6	Falls View	Welland	7, 9 Stamford	4,848,095	8	6	2	320	‡	269	92.1	......	....
7	Gooderham	Haliburton	2, 4, 5 Glamorgan	33,153	3	......	3	83	49	68	86.0	4	....
8	Grant	Carleton	3, 15 Nepean	513,172	3	1	2	142	15	108	89.7	......	....
9	Grantham	Lincoln	5, 6 Grantham	441,750	8	6	2	313	54	251	89.9	29	....
10	Hudson	Temiskaming	Hudson Township	146,760	2	......	2	79	75	56	87.0	......	....
11	Humber Heights	York	5 Etobicoke (3 schools)	615,800	7	6	1	305	100	267	91.7	......	....
12	Katrine	Parry Sound	1, 5 Armour	57,430	1	1	......	28	16	20	86.6	3	....
13	Macdonald	Wellington	6½, 7 Guelph	437,500	4	......	4	116	†	104	93.2	......	....
14	Mallorytown	Leeds	4, 5, 6 Front of Yonge, 19 Front of Escott	239,837	4	2	2	129	74	110	88.8	......	53
15	Mindemoya	Manitoulin Island	1, 4 Carnarvon	87,495	4	2	2	100	44	93	94.3	......	25
16	Morley	Rainy River	7 Morley, 9 Morley and Dilke, 1 Long Sault	175,013	3	1	2	121	74	94	89.5	20	....
17	Nipigon	Thunder Bay	1, 2, 3 Nipigon	483,372	5	5	......	211	23	170	93.4	......	24
18	Nobel	Parry Sound	1 Carling, 3 MacDougall	216,198	2	1	1	69	48	64	90.0	5	....
19	North Mountain	Dundas	9, 12, 13, 14 Mountain	323,500	7	4	3	154	117	131	89.7	......	....
20	Pointe au Baril	Parry Sound	1, 2 Harrison	274,200	1	1	......	35	30	23	87.2	3	....
21	Quibell	Kenora	1, 2 Wabigoon, 1 Redvers	54,690	2	2	......	57	40	48	96.7	3	....
22	Savard	Temiskaming	1, 2 Savard, 2 Robillard	74,675	2	1	1	102	102	67	79.4	7	....
23	Sundridge	Parry Sound	6, 4 Strong, Sundridge Village	229,440	5	3	2	200	35	155	89.6	......	44
24	Tamworth	Lennox and Addington	3, 6, 7 Sheffield, 28 Camden	229,280	3	2	1	197	65	98	90.4	......	80
25	Tweed	Hastings	3, 5 Hungerford, Tweed Village	799,328	6	2	4	172*	89	172	92.4	......	....
26	Wellington	Prince Edward	10, 11, 14, Hillier, 9, 10 Hallowell, Wellington Village	1,524,584	9	4	5	315	151	280	86.9	......	78
27	West Guilford	Haliburton	2, 3 Guilford	33,690	2	1	1	85	73	70	88.1	8	....
28	Wilberforce	Haliburton	2, 6 Monmouth, 8 Cardiff	30,835	2	1	1	41	18	36	91.9	12	....
			Totals	12,318,722	108	64	44	3,834	1,536	3,125	89.94	126	304

*Average attendance. †Students use regular public transportation facilities. ‡No data.

THE PUBLIC SCHOOLS

TABLE 23—CONSOLIDATED SCHOOLS, 1937-38

No	Consolidated School	Cost of Operation					Legislative Grants					Cost per Pupil of Average Attendance		
		Teachers' Salaries	Transportation	Total Current	Capital Charges	Gross Cost	General	Transportation	Special on Salaries and Equipment	Fifth Class and Continuation School	Total	To Section	To Government	Total
		$ c	$ c	$ c	$ c	$ c	$ c	$ c	$ c	$ c	$ c	$ c	$ c	$ c
1	Barwick	2,619.00	860.00	4,738.18	1,598.32	6,336.50	2,204.33	516.00	300.00	320.00	3,340.33	46.56	51.90	98.46
2	Burriss	2,550.00	2,327.00	6,176.25	1,452.98	7,629.23	2,189.07	1,501.26	300.00	318.50	4,308.83	68.81	89.30	158.11
3	Byng Inlet	3,200.00	882.00	6,226.95	348.74	6,575.70	3,667.18	529.29	300.00	188.96	4,685.43	16.25	40.27	56.52
4	Charlton	2,400.00	1,741.25	6,061.32		6,061.32	1,498.58	1,016.10	300.00	329.14	3,143.82	42.74	46.07	88.81
5	Dorion	2,550.00	2,251.00	6,776.14	983.71	7,759.85	2,580.86	1,377.60	300.00	152.32	4,410.78	44.65	58.81	103.46
6	Falls View	10,414.10	1,756.00	20,775.05		20,775.05	2,524.24	526.80	800.00		3,851.04	62.82	14.29	77.11
7	Gooderham	2,000.00	2,224.20	5,103.85		5,103.85	1,520.96	1,334.52	300.00	233.76	3,389.24	25.14	49.69	74.83
8	Grant	3,900.00	335.50	7,881.23	6,192.49	14,073.72	1,163.24	201.38	300.00		1,664.62	114.98	15.42	130.40
9	Grantham	7,708.58	1,000.00	13,543.35		13,543.35	3,305.81	300.00	800.00	159.75	4,565.56	35.84	18.22	54.06
10	Hudson	1,500.00	2,013.89	4,705.77		4,705.77	629.43	1,136.85	213.75		1,980.03	48.34	35.11	83.45
11	Humber Heights	7,126.00	1,161.00	11,424.76	6,210.41	17,635.17	3,024.62	350.03	700.00		4,074.65	50.81	15.26	66.07
12	Katrine	1,050.00	830.27	2,153.04		2,153.04	443.48	498.16	107.08		1,048.72	55.35	52.57	107.92
13	Macdonald	4,654.83	99.35	7,672.02		7,672.02	1,476.87	29.81	400.00		1,906.68	55.51	18.36	73.87
14	Mallorytown	4,530.00	2,085.00	9,211.60	2,615.55	11,827.15	567.24	957.08	447.20	1,399.72	3,371.24	77.18	30.77	107 95
15	Mindemoya	3,790.00	1,086.40	6,877.53	1,541.00	8,418.53	1,401.42	615.84	400.00	1,355.90	3,773.16	50.77	39.99	90.76
16	Morley	2,300.00	2,923.29	6,407.57	1,220.52	7,628.09	1,140.29	1,753.97	300.00		3,194.26	46.99	33.85	80.84
17	Nipigon	5,762.50	1,806.05	11,920.28	1,887.86	13,808.14	1,480.36	1,083.63	520.00	1,043.83	4,127.82	57.04	24.32	81.36
18	Nobel	2,347.40	2,700.00	6,530.27	805.86	7,336.15	1,019.86	1,529.35	200.00	213.76	2,962.97	67.82	45.95	113.77
19	North Mountain	7,050.00	3,618.20	13,874.65	4,383.28	18,257.93	904.66	1,649.46	700.00		3,254.12	114.10	24.74	138.84
20	Pointe au Baril	1,100.00	1,464.95	3,768.42	596.39	4,364.81	249.37	878.97	100.00		1,228.34	137.44	53.82	191.26
21	Quibell	1,500.00	2,316.25	4,465.20	178.30	4,643.50	1,238.70	1,389.75	200.00	226.40	3,054.85	32.94	63.35	96.29
22	Savard	1,865.00	3,772.62	11,049.82	1,002.62	12,052.44	1,696.67	2,263.57	200.00	246.26	4,406.50	113.41	65.35	178.76
23	Sundridge	4,950.00	955.50	7,698.07		7,698.07	1,462.89	645.91	500.00	1,395.87	4,004.67	25.79	23.79	49.58
24	Tamworth	2,500.00	2,215.50	5,414.20		5,414.20	916.02	1,383.00	300.00	1,546.24	4,145.26	12.94	42.28	55.22
25	Tweed	5,240.00	4,173.30	10,991.20	871.80	11,863.00	1,390.97	1,445.04	600.00		3,436.01	49.00	19.98	68.98
26	Wellington	9,561.00	3,768.00	17,969.55	8,256.00	26,225.55	1,097.77	1,236.30	900.00	757.30	3,991.37	79.38	14.24	93.62
27	West Guilford	1,400.00	1,350.00	3,203.42		3,203.42	1,246.12	810.00	200.00	150.98	2,407.10	11.32	34.23	45.55
28	Wilberforce	1,700.00	392.00	2,392.05		2,392.05	1,700.00	235.20	200.00	179.52	2,314.52	2.14	63.84	65.98
	Totals	107,268.41	47,379.28	225,011.77	40,145.83	265,157.60	43,742.01	27,193.87	10,888.03	10,218.21	92,042.12	55.54	38.71	94.31

THE PUBLIC SCHOOLS

TABLE 24—LOW ATTENDANCE SCHOOLS, CALENDAR YEAR, 1937

(A) Distribution

Counties	Average Attendance										
	1	2	3	4	5	6	7	8	9	10	Total
Addington				1		1		2		2	6
Brant										1	1
Bruce	1		2	1	5	2	6	6	7	13	43
Carleton						1	3	2	3	4	13
Dufferin				3	5	2	1	5	1	5	22
Dundas						1		3	4	4	12
Durham				1			2	5	2	5	15
Elgin					1	1	1	4	3	4	14
Essex								1			1
Frontenac			5	6	6	7	6	6	6	8	50
Glengarry					1	1	1	2	3	4	12
Grenville			1	2		3	3	5	6	3	23
Grey		1		2	1	7	3	2	5	6	27
Haldimand						1	1	2	2		6
Haliburton					2	6	3	3		4	18
Halton								1	1		2
Hastings					2	3	2	2	2	10	21
Huron				2	3	5	4	5	5	11	35
Kent								1			1
Lambton		1			1	2	7	3	4	4	22
Lanark		2	4	1	5	8	1	6	9	6	42
Leeds						2	1	5	6	4	18
Lennox					1	1	2	1	6	3	14
Lincoln									1	3	4
Middlesex				2	4	2	6	4	9	9	36
Norfolk							2	5	5	1	13
Northumberland								1		1	2
Ontario			1		3	1	3	1			9
Oxford						1		2		1	4
Peel							2		1	3	6
Perth						1	1	1	4	1	8
Peterborough			2	4	3	1	1	3	3	3	20
Precott						3		2	2	3	10
Prince Edward				1	1	5	2	2	3	2	16
Renfrew	1				1	1	4	4	6	5	22
Russell				1					2	1	4
Simcoe					2	1	1	4	5	9	22
Stormont							2	1	3	5	11
Victoria			1	1	2	3	8	3	7	10	35
Waterloo								1		1	2
Welland									1		1
Wellington					1			3	7	6	17
Wentworth									1	1	2
York										1	1
Totals	2	4	16	28	50	73	79	109	135	167	663
Districts											
Algoma					1	1	1	1	1	3	8
Cochrane					1			1	2	1	5
Kenora				1				1		3	5
Manitoulin						3	3	1	1	1	9
Muskoka					2		6		4	1	13
Nipissing		1						3	2	1	7
Parry Sound		1		2	4	4	5	8	5	6	35
Rainy River						5	1	3	2	2	13
Sudbury						2	2	4	6	3	17
Timiskaming			1		1	1		2		2	7
Thunder Bay					1	1	1	3	3	1	10
Totals		2	1	3	10	17	19	27	26	24	129
Grand Totals	2	6	17	31	60	90	98	136	161	191	792

THE PUBLIC SCHOOLS

TABLE 24—LOW ATTENDANCE SCHOOLS, CALENDAR YEAR, 1937

(B) Costs

(I) Schools with an Average Attendance of 1 to 5

	Number of Schools	Pupil-Days Attended	Average Daily Attendance per School	Current Disbursements for the Year				Legislative Share	Cost per Pupil-day (in cents) (Gen. maintenance only)			Average Cost per Pupil-day for all Rural Schools in the Province
				General Maintenance	Capital Outlays	Capital Charges	Total		To Local (Net)	To Gov't.	Total	
				$	$	$	$	$				
Counties........	100	79,085	4.20	69,134	194	....	69,328	22,771	58.63	28.79	87.42	....
Districts........	16	13,179	4.31	11,324	78	74	11,476	6,036	40.12	45.80	85.92	....
Province........	116	92,264	4.22	80,458	272	74	80,804	28,807	55.98	31.22	87.20	....

(II) Schools with an Average Attendance of 6 to 10

	Number of Schools	Pupil-Days Attended	Average Daily Attendance per School	General Maintenance	Capital Outlays	Capital Charges	Total	Legislative Share	To Local (Net)	To Gov't.	Total	Average Cost per Pupil-day for all Rural Schools in the Province
				$	$	$	$	$				
Counties........	563	915,464	8.45	442,615	21,680	1,086	465,381	102,035	37.20	11.15	48.35	....
Districts........	113	178,470	8.19	95,601	872	....	96,473	57,884	21.14	32.43	53.57	....
Province........	676	1,093,934	8.40	538,216	22,552	1,086	561,854	159,919	34.58	14.62	49.20	....

(III) Schools with an Average Attendance of 1 to 10

	Number of Schools	Pupil-Days Attended	Average Daily Attendance per School	General Maintenance	Capital Outlays	Capital Charges	Total	Legislative Share	To Local (Net)	To Gov't.	Total	Average Cost per Pupil-day for all Rural Schools in the Province
				$	$	$	$	$				
Counties........	663	994,549	7.81	511,749	21,874	1,086	534,709	124,806	38.91	12.55	51.46	25.3
Districts........	129	191,649	7.71	106,925	950	74	107,949	63,920	22.44	33.35	55.79	29.4
Province........	792*	1,186,198	7.79	618,674	22,824	1,160	642,658	188,726	36.25	15.91	52.16	26.0

*This figure is a decrease of 73 schools over last year.

THE PUBLIC SCHOOLS

TABLE 25—PROTESTANT SEPARATE SCHOOLS, 1937

	S.S. 1 Grattan (Renfrew)	S.S. 2 Hagarty (Renfrew)	L'Orignal Village (Prescott)	Penetanguishene Town (Simcoe)	Totals
Number of Schools	1	1	1	2	5
	$ c.	$ c.	$ c.	$ c.	$ c.
RECEIPTS:					
Balances from 1936	431.24	12.39	355.28	....	798.91
Legislative Grants	141.37	282.38	201.15	1,130.04	1,754.94
School District Levy	616.25	294.37	600.00	8,292.87	9,803.49
Other Sources	91.18	259.01	2.25	2,947.84	3,300.28
Totals	1,280.04	848.15	1,158.68	12,370.75	15,657.62
EXPENDITURES:					
Teachers' Salaries	502.40	522.40	600.00	5,616.82	7,241.62
Other Current	205.46	131.11	174.37	2,597.08	3,108.02
Total Current	707.86	653.51	774.37	8,213.90	10,349.64
Capital Outlays	200.00	....	....	3,155.78	3,355.78
Repayment of Temporary Loans	....	188.00	....	17.41	205.41
Totals	907.86	841.51	774.37	11,387.09	13,910.83
Balance on hand, December 31, 1937	372.18	6.64	384.31	983.66	1,746.79
Cost of Education per Pupil-Day (in cents)	15.4	21.5	59.2	31.1	29.3(Av.)
*TEACHERS:					
Male	....	....	....	1	1
Female	1	1	1	4	7
Certificates	II	I	I	2(I); 2(II); 1(K-P)	4(I); 3(II); 1(K-P)
Regular Salaries	$500.00	$550.00	$600.00	$4,920.00	$6,570.00
*PUPILS:					
Total Enrolment	33	19	9	185	246
Boys	17	8	5	100	130
Girls	16	11	4	85	116
Average Attendance	25	16	7	157	205

*School Year, 1937-38.

THE ROMAN CATHOLIC SEPARATE SCHOOLS

TABLE 26—AGE-GRADE DISTRIBUTION, MAY, 1938

(A) ALL SCHOOLS

		Under 5 yrs.	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years	14 years	15 years	16 yrs	17 yrs	18 yrs	19 yrs and over	Totals	Totals by Grade	Per-cent of Total Enrolment	Average Age		Average Increment of Age Between Grades		
																					By Sex	Average		By Sex	Average
GRADE I...	Boys	3	232	2800	3941	2010	785	348	149	77	43	12	5	....	1	...	....	10106	20043	19.55	7.76	7.67			
	Girls	7	215	2944	3802	1760	584	180	76	37	27	5	.....	....	...	...	....	9637			7.58				
GRADE II..	Boys	....	7	45	1356	2621	1639	869	377	162	80	28	4	2	1	...	....	7191	14024	13.68	9.10	8.96	Grade I to Grade II	1.34	1.29
	Girls	....	12	91	1645	2648	1440	634	212	87	46	14	3	1	...	...	....	6833			8.82			1.24	
GRADE III.	Boys	....	.....	1	64	1040	1775	1189	672	323	190	70	24	4	...	...	....	5352	10225	9.98	10.17	10.03	Grade II to Grade III	1.07	1.07
	Girls	....	.....	.....	120	1130	1699	1094	544	192	72	12	8	1	1	...	....	4873			9.87			1.05	
GRADE IV.	Boys	....	.....	.....	7	266	945	1336	964	683	360	192	69	10	...	...	1	4833	9432	9.20	11.14	10.90	Grade III to Grade IV	.97	.87
	Girls	....	.....	.....	13	433	1201	1324	825	531	185	57	22	7	1	...	....	4599			10.68			.81	
GRADE V..	Boys	....	.....	.....	.....	22	653	1671	1556	1211	819	498	149	22	5	...	....	6606	13088	12.77	11.82	11.65	Grade IV to Grade V	.68	.75
	Girls	....	.....	.....	.....	31	869	1819	1636	1130	576	336	74	10	1	...	....	6482			11.48			.80	
GRADE VI.	Boys	....	.....	.....	.....	.....	36	593	1341	1546	1292	781	321	68	11	...	....	5989	11798	11.51	12.75	12.56	Grade V to Grade VI	.93	.91
	Girls	....	.....	.....	.....	5	49	822	1626	1572	1014	531	163	23	4	...	....	5809			12.37			.89	
GRADE VII	Boys	....	.....	.....	.....	.....	1	40	544	1281	1382	1054	570	190	24	...	....	5086	10221	9.97	13.57	13.42	Grade VI to Grade VII	.82	.86
	Girls	....	.....	.....	.....	.....	1	57	698	1536	1479	913	380	67	4	..	....	5135			13.26			.89	
GRADE VIII	Boys	....	.....	.....	.....	.....	.....	1	85	545	1167	1169	798	324	40	11	1	4141	8703	8.49	14.28	14.18	Grade VII to Grade VIII	.71	.77
	Girls	....	.....	.....	.....	.....	.....	4	81	703	1498	1271	712	264	25	4	....	4562			14.10			.84	
GRADE IX.	Boys	....	.....	.....	.....	.....	.....	.....	2	31	166	312	258	147	44	15	3	978	2466	2.41	15.03	14.95	Grade VIII to Grade IX	.75	.77
	Girls	....	.....	.....	.....	.....	.....	.....	9	62	273	470	405	209	52	7	1	1488			14.89			.79	
GRADE X..	Boys	....	.....	.....	.....	.....	.....	.....	.....	1	18	145	205	212	86	31	5	703	1633	1.59	15.95	15.87	Grade IX to Grade X	.91	.92
	Girls	....	.....	.....	.....	.....	.....	.....	.....	2	35	174	343	243	102	25	6	930			15.82			.92	
Jr. Auxiliary Classes....	Boys	....	.....	.....	1	11	28	51	67	94	81	103	119	47	8	2	1	613	872	.85	13.46	13.28	....	.....	.....
	Girls	....	.....	.....	1	9	16	26	31	51	38	44	35	6	1	...	1	259			12.87		....	.....	.....
TOTALS BY SEXES....	Boys	3	239	2846	5369	5970	5862	6098	5757	5954	5598	4364	2522	1026	220	59	11	51898	......	......	......	......	Average.......	.91	.91
	Girls	7	227	3035	5581	6016	5859	5960	5738	5903	5243	3827	2145	831	191	36	8	50607	......	......	......	......		.91	
Grand Totals	.....	10	466	5881	10950	11986	11721	12058	11495	11857	10841	8191	4667	1857	411	95	19	102505							

Heavy lines denote ideal age apread for each grade. As the school census is taken near the end of the school year, the ideal age spread has been moved forward one year from that shown in former issues.

(B) URBAN SCHOOLS

		Under 5 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years	14 years	15 years	16 years	17 years	18 years	19 years and over	Totals	Totals by Grades
GRADE I	Boys	1	129	2,106	2,952	1,295	414	177	61	25	15	4	3	......	1	......	......	7,183	14,059
	Girls	7	146	2,252	2,777	1,215	339	85	24	19	9	3	......	......	......	......	......	6,876	
GRADE II	Boys	......	7	37	1,150	2,087	1,176	564	229	85	45	13	3	......	1	......	......	5,397	10,727
	Girls	......	12	80	1,397	2,125	1,076	438	114	51	30	4	2	1	......	......	......	5,330	
GRADE III	Boys	......	......	......	54	879	1,368	874	478	205	118	47	19	3	......	......	......	4,045	7,797
	Girls	......	......	......	94	917	1,318	843	390	126	46	10	6	1	1	......	......	3,752	
GRADE IV	Boys	......	......	......	6	233	784	1,093	739	481	246	141	53	10	......	......	1	3,787	7,421
	Girls	......	......	......	9	370	989	1,033	629	400	139	42	18	4	1	......	......	3,634	
GRADE V	Boys	......	......	......	......	21	572	1,378	1,201	893	597	394	111	20	5	......	......	5,192	10,242
	Girls	......	......	......	......	26	733	1,422	1,244	858	412	285	60	9	1	......	......	5,050	
GRADE VI	Boys	......	......	......	......	......	32	499	1,108	1,200	929	627	265	61	10	......	......	4,731	9,325
	Girls	......	......	......	......	3	33	685	1,293	1,207	783	429	138	20	3	......	......	4,594	
GRADE VII	Boys	......	......	......	......	......	1	38	454	1,048	1,115	833	485	160	21	......	......	4,155	8,242
	Girls	......	......	......	......	......	1	40	555	1,223	1,175	733	305	53	2	......	......	4,087	
GRADE VIII	Boys	......	......	......	......	......	......	1	68	452	969	945	677	274	35	9	1	3,431	7,123
	Girls	......	......	......	......	......	......	1	53	566	1,230	1,010	593	217	19	3	......	3,692	
GRADE IX	Boys	......	......	......	......	......	......	......	......	19	122	250	202	121	32	13	3	762	1,894
	Girls	......	......	......	......	......	......	......	8	46	195	354	315	161	49	4	......	1,132	
GRADE X	Boys	......	......	......	......	......	......	......	......	1	15	118	179	180	76	29	2	600	1,301
	Girls	......	......	......	......	......	......	......	......	1	21	131	275	188	64	18	3	701	
JR. AUXILIARY CLASSES	Boys	......	......	......	1	11	27	49	65	90	77	100	119	47	8	2	1	597	848
	Girls	......	......	......	1	9	16	25	29	50	35	44	34	6	1	......	1	251	
TOTALS BY SEXES	Boys	1	136	2,143	4,163	4,526	4,374	4,673	4,403	4,499	4,248	3,472	2,116	876	189	53	8	39,880	
	Girls	7	158	2,332	4,278	4,665	4,505	4,572	4,339	4,547	4,075	3,045	1,746	660	141	25	4	39,099	
GRAND TOTALS		8	294	4,475	8,441	9,191	8,879	9,245	8,742	9,046	8,323	6,517	3,862	1,536	330	78	12	78,979	

(C) RURAL SCHOOLS

		Under 5 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years	14 years	15 years	16 years	17 years	18 years	19 years and over	Totals	Totals by Grades
GRADE I	Boys	2	103	694	989	715	371	171	88	52	28	8	2	......	......	......	......	3,223	5,984
	Girls	......	69	692	1,025	545	245	95	52	18	18	2	......	......	......	......	......	2,761	
GRADE II	Boys	......	......	8	206	534	463	305	148	77	35	15	1	2	......	......	......	1,794	3,297
	Girls	......	......	11	248	523	364	196	98	36	16	10	1	......	......	......	......	1,503	
GRADE III	Boys	......	......	1	10	161	407	315	194	118	72	23	5	1	......	......	......	1,307	2,428
	Girls	......	......	......	26	213	381	251	154	66	26	2	2	......	......	......	......	1,121	
GRADE IV	Boys	......	......	......	1	33	161	243	225	202	114	51	16	......	......	......	......	1,046	2,011
	Girls	......	......	......	4	63	212	291	196	131	46	15	4	3	......	......	......	965	
GRADE V	Boys	......	......	......	......	1	81	293	355	318	222	104	38	2	......	......	......	1,414	2,846
	Girls	......	......	......	......	5	136	397	392	272	164	51	14	1	......	......	......	1,432	
GRADE VI	Boys	......	......	......	......	......	4	94	233	346	363	154	56	7	1	......	......	1,258	2,473
	Girls	......	......	......	......	2	16	137	333	365	231	102	25	3	1	......	......	1,215	
GRADE VII	Boys	......	......	......	......	......	......	2	90	233	267	221	85	30	3	......	......	931	1,979
	Girls	......	......	......	......	......	......	17	143	313	304	180	75	14	2	......	......	1,048	
GRADE VIII	Boys	......	......	......	......	......	......	......	17	93	198	224	121	50	5	2	......	710	1,580
	Girls	......	......	......	......	......	......	3	28	137	268	261	119	47	6	1	......	870	
GRADE IX	Boys	......	......	......	......	......	......	......	2	12	44	62	56	26	12	2	......	216	572
	Girls	......	......	......	......	......	......	......	1	16	78	116	90	48	3	3	1	356	
GRADE X	Boys	......	......	......	......	......	......	......	......	......	3	27	26	32	10	2	3	103	332
	Girls	......	......	......	......	......	......	......	......	1	14	43	68	55	38	7	3	229	
JR. AUXILIARY CLASSES	Boys	......	......	......	......	......	1	2	2	4	4	3	......	......	......	......	......	16	24
	Girls	......	......	......	......	......	......	1	2	1	3	......	1	......	......	......	......	8	
TOTALS BY SEXES	Boys	2	103	703	1,206	1,444	1,488	1,425	1,354	1,455	1,350	892	406	150	31	6	3	12,018	
	Girls	......	69	703	1,303	1,351	1,354	1,388	1,399	1,356	1,168	782	399	171	50	11	4	11,508	
GRAND TOTALS		2	172	1,406	2,509	2,795	2,842	2,813	2,753	2,811	2,518	1,674	805	321	81	17	7	23,526	

THE ROMAN CATHOLIC SEPARATE SCHOOLS

TABLE 27—TEACHERS' SALARIES, 1937-38

Rural Schools	Male				Female			
	No. of Teachers	Highest	Lowest	Average	No. of Teachers	Highest	Lowest	Average
In Counties		$	$	$		$	$	$
Addington	....	....	....	....	2	800	600	700
Bruce	1	700	700	700	14	1,000	550	762
Carleton	2	700	600	650	19	1,000	350	676
Dundas	....	....	....	....	1	675	675	675
Essex	1	750	750	750	53	1,200	425	753
Frontenac	2	850	750	800	8	850	500	600
Glengarry	3	800	525	658	23	1,600	500	800
Grey	1	487	487	487	7	1,000	500	603
Hastings	1	700	700	700	6	1,050	600	716
Huron	....	....	....	....	9	1,200	500	812
Kent	4	950	650	862	10	900	500	730
Lambton	....	....	....	....	2	600	600	600
Lanark	....	....	....	....	3	700	500	600
Leeds	....	....	....	....	2	500	450	475
Lennox	....	....	....	....	1	600	600	600
Middlesex	....	....	....	....	5	550	500	530
Norfolk	....	....	....	....	3	700	600	633
Northumberland	....	....	....	....	5	650	500	540
Ontario	1	700	700	700	1	600	600	600
Peel	....	....	....	....	1	675	675	675
Perth	....	....	....	....	17	1,300	500	891
Peterborough	1	625	625	625	4	600	550	562
Prescott	14	1,100	600	742	36	700	350	552
Renfrew	2	750	640	695	57	1,100	460	672
Russell	6	950	525	662	70	1,000	200	586
Simcoe	1	900	900	900	8	850	550	725
Stormont	1	800	800	800	16	1,200	475	751
Victoria	1	600	600	600	2	750	600	675
Waterloo	....	....	....	....	14	800	630	709
Wellington	....	....	....	....	7	800	350	600
Wentworth	....	....	....	....	3	850	425	566
York	2	1,425	1,425	1,425	49	1,140	500	975
Totals and Averages	44	1,425	487	754	458	1,600	200	708
In Districts								
Algoma	....	....	....	....	3	1,000	900	933
Cochrane	23	1,300	600	823	65	1,000	600	751
Kenora	1	1,000	1,000	1,000	....	....	....	....
Manitoulin	1	900	900	900	1	800	800	800
Muskoka	2	850	550	700	....	....	....	....
Nipissing	10	800	600	767	47	1,000	500	710
Rainy River	1	850	850	850	2	800	700	750
Sudbury	23	1,400	600	816	43	1,200	600	858
Timiskaming	3	800	750	792	17	1,200	500	812
Thunder Bay	....	....	....	....	1	800	800	800
Totals and Averages	64	1,300	550	811	179	1,200	500	775
All Rural Schools	108	1,425	487	788	637	1,600	200	727
Cities	149	2,375	600	914	1,274	1,400	380	727
Towns	54	1,650	500	943	645	1,500	350	755
Villages	2	900	600	750	48	1,450	500	773
All Urban Schools	205	2,375	500	920	1,967	1,500	350	737
For the Province	313	2,375	487	875	2,604	1,600	200	735
Increase for the Year	....	....	....	17	....	....	....	6

THE ROMAN CATHOLIC

TABLE 28—FINANCIAL

Rural Schools	Assessment[A] per Classroom	No. of Classrooms	A.D.A.[B] for the Calendar Year	A.D.A.[B] Per Classroom	Major Sources of Receipts		
					School District Levy[C]	County Grant	Legislative Grant
In Counties	$				$	$	$
1 Middlesex	150,700	5	59	12	2,986	89	617
2 Huron	144,878	9	170	19	4,914	892	2,663
3 Kent	142,391	14	355	25	12,498	878	3,191
4 Lambton	138,167	2	33	17	1,406	8	360
5 Norfolk	135,400	3	105	35	2,822	250	730
6 Peel	129,117	1	4	4	648	19	165
7 Victoria	122,801	3	56	19	1,831	165	635
8 Wellington	117,935	7	113	16	3,335	186	1,372
9 Bruce	115,181	15	448	30	10,267	596	4,083
10 Waterloo	107,249	14	399	28	6,637	592	3,403
11 Perth	107,137	16	301	19	9,342	1,213	5,230
12 Essex	104,383	54	1,449	27	36,155	5,225	14,018
13 Ontario	92,821	2	54	27	605	123	556
14 Peterborough	92,811	5	78	16	2,014	174	976
15 Simcoe	90,264	9	247	27	7,651	461	2,892
16 Frontenac	85,305	9	142	16	5,719	294	2,267
17 Grey	67,141	8	95	12	3,588	294	1,549
18 Prescott	66,393	79	1,954	25	41,405	2,729	15,456
19 Russell	63,412	77	2,001	26	34,648	2,059	15,603
20 Lanark	62,405	3	38	13	1,395	73	821
21 Addington	60,881	2	46	23	1,200	147	633
22 Hastings	60,005	7	150	21	3,961	189	1,990
23 Northumberland	58,703	5	55	11	2,647	206	1,217
24 Carleton	56,264	43	1,245	29	25,801	452	13,650
25 Dundas	51,546	1	28	28	561	55	250
26 Renfrew	49,491	28	586	21	8,650	1,308	13,272
27 York	47,609	49	1,779	36	6,860	1,269	37,411
28 Stormont	26,864	16	475	30	7,321	661	5,802
29 Lennox	25,690	1	10	10	227	54	407
30 Leeds	23,003	2	20	10	533	....	601
31 Glengarry	21,951	25	571	23	13,508	859	9,066
32 Wentworth	17,718	4	73	18	505	185	1,483
Totals and Averages	73,975	518	13,139	25	261,640	21,705	162,279
In Districts							
1 Thunder Bay	45,045	1	25	25	670	....	355
2 Manitoulin	35,830	2	63	32	950	....	....
3 Cochrane	30,181	88	2,769	33	65,760	....	79,240
4 Rainy River	27,101	3	60	20	1,542	....	1,882
5 Temiskaming	26,837	47	1,304	28	32,719	....	42,983
6 Kenora	20,000	1	28	28	325	....	976
7 Nipissing	19,017	57	1,592	28	16,139	....	37,549
8 Sudbury	16,858	61	1,767	29	32,366	....	46,155
9 Parry Sound	16,750	1	20	20	265	....	395
10 Muskoka	15,200	2	55	28	216	....	1,780
11 Algoma	7,292	3	77	26	995	....	3,144
Totals and Averages	23,747	266	7,760	29	151,947	....	214,459
Totals and Averages, All Rural	56,353	784	20,899	27	413,587	21,705	376,738

SEPARATE SCHOOLS

STATISTICS, 1937

	Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness		Other Indebtedness	
	Current E	Capital F	Current	Capital	Total	Amount	Per $1,000 of Assessment	Amount	Per $1,000 of Assessment
	$	$				$	$ c.	$	$ c.
1	3,475	....	31.6	....	31.6	....	....	....	....
2	11,127	....	36.0	....	36.0	....	....	1,350	1.04
3	16,264	3,313	24.5	5.0	29.5	1,194	.60	....	....
4	1,847	....	29.6	....	29.6	....	....	....	....
5	3,320	....	16.9	....	16.9	....	....	....	....
6	863	....	128.6	....	128.6	....	....	....	....
7	2,657	....	26.2	....	26.2	....	....	....	......
8	5,067	....	23.6	....	23.6	....	....	187	.23
9	15,100	399	20.4	.5	20.9	1,471	.85	1,330	.77
10	13,754	....	18.2	....	18.2	....	....	446	.30
11	19,373	1,582	36.1	2.9	39.0	13,220	7.71	6,920	4.04
12	57,380	2,691G	21.0	1.0G	....	60,579	10.75	3,838	.60
13	1,805	....	18.6	....	18.6	....	....	....	....
14	4,327	....	29.0	....	29.0	....	....	....	....
15	9,306	1,241	20.3	2.7	23.0	6,771	8.33	720	.89
16	8,309	....	32.6	....	32.6	....	....	....	....
17	5,646	....	31.9	....	31.9	....	....	....	....
18	57,038	1,746	15.5	.5	16.0	9,300	1.77	4,591	.88
19	54,103	1,937	14.4	.5	14.9	4,200	.86	200	.04
20	2,177	....	29.6	....	29.6	....	....	....	....
21	1,677	....	19.2	....	19.2	....	....	....	....
22	5,781	....	20.7	....	20.7	....	....	....	....
23	4,127	....	39.3	....	39.3	....	....	....	....
24	36,291	2,851	15.5	1.2	16.7	18,303	7.57	400	.17
25	724	....	13.7	....	13.7	....	....	....	....
26	27,399	1,459	24.0	1.3	25.3	13,247	9.56	10,582	7.64
27	83,733	38,426	24.9	11.4	36.3	408,650	175.17	12,870	5.52
28	15,784	1,008	17.7	1.1	18.8	2,508	5.84	991	2.31
29	704	....	36.9	....	36.9	....	....	....	....
30	1,080	....	28.5	....	28.5	....	....	....	....
31	28,012	1,492	28.6	1.5	30.1	8,933	16.28	3,024	5,51
32	2,012	....	14.5	....	14.5	....	....	284	4.01
	500,262	58,145	20.4	2.7	23.1	548,376	14.31	47,733	1.24
1	1,169	....	24.4	....	24.4	....	....	110	2.44
2	1,021	....	22.8	....	22.8	....	....	....	....
3	113,552	14,166	21.6	2.7	24.3	136,415	51.36	15,585	5.87
4	3,018	290	26.6	2.5	29.1	994	12.23	....	....
5	63,380	9,881	25.6	4.0	29.6	89,443	70.91	12,110	9.60
6	1,172	211	22.4	4.0	26.4	1,883	94.15	....	....
7	51,861	2,489	17.0	.8	17.8	11,797	10.88	14,435	13.32
8	76,331	3,795	24.8	1.2	26.0	91,537	89.02	21,190	20.61
9	706	....	18.3	....	18.3	....	....	....	....
10	1,808	....	17.0	....	17.0	....	....	500	16.45
11	3,362	....	26.5	....	26.5	....	....	....	....
	317,380	30,832	22.1	2.2	24.2	332,069	54.16	63,930	10.45
	817,642	88,977	21.0	2.5	23.5	880,445	19.93	111,663	2.52

THE ROMAN CATHOLIC

TABLE 28—FINANCIAL

Cities	Counties	ment per Class-room	Class-rooms	for the Calendar Year	per Class-room	Major Sources of Receipts		
						School District Levy c	County Grant	Legislative Grant
		$				$	$	$
1 Toronto..........	York..........	160,557	304	11,054	36	603,212	....	24,029
2 Niagara Falls......	Welland........	157,430	11	442	40	16,741	....	1,064
3 St. Catharines.....	Lincoln........	143,399	21	710	34	31,245	....	1,842
4 St. Thomas.......	Elgin..........	141,541	7	229	33	7,876	....	374
5 Chatham.........	Kent..........	132,748	14	550	39	13,818	....	847
6 Kitchener.........	Waterloo.......	124,841	45	1,657	37	67,053	....	3,734
7 Kingston.........	Frontenac......	113,319	24	801	33	25,521	....	2,133
8 Owen Sound......	Grey..........	111,909	4	147	37	4,603	....	266
9 Windsor..........	Essex..........	111,760	180	6,518	36	189,430	....	8,636
10 London...........	Middlesex......	111,661	54	1,475	27	54,259	....	3,287
11 Stratford.........	Perth..........	107,398	13	411	32	16,530	....	814
12 Sarnia............	Lambton.......	107,224	15	465	31	17,775	....	1,006
13 Hamilton.........	Wentworth.....	100,958	134	4,380	33	155,366	....	12,574
14 Brantford.........	Brant..........	94,591	17	664	39	25,675	....	3,875
15 Guelph...........	Wellington.....	93,837	21	841	40	25,305	....	1,960
16 Ottawa...........	Carleton.......	89,552	335	10,853	32	433,788	....	55,076
17 Belleville.........	Hastings.......	87,469	13	410	31	13,246	....	1,104
18 Woodstock........	Oxford.........	87,189	4	135	34	2,993	....	270
19 Peterborough......	Peterborough...	83,300	31	930	30	31,777	....	2,440
20 Oshawa...........	Ontario........	74,989	11	418	38	13,189	....	902
21 Galt..............	Waterloo.......	72,597	6	228	38	5,745	....	610
Totals and Averages	....	116,133	1,264	43,318	34	1,755,147	....	126,843
	Districts							
1 Fort William......	Thunder Bay...	165,567	28	1,109	40	44,084	....	2,562
2 Port Arthur.......	Thunder Bay...	147,443	19	651	34	27,323	....	1,392
3 Sudbury..........	Sudbury........	81,532	56	1,978	35	102,436	....	9,334
4 North Bay........	Nipissing.......	62,832	36	1,338	37	43,451	....	4,354
5 Sault Ste. Marie...	Algoma........	61,095	33	1,061	32	45,828	....	6,505
Totals and Averages	....	94,547	172	6,137	36	263,122	....	24,147
Totals and Averages	All Cities........	113,547	1,436	49,455	34	2,018,269	....	150,990
Towns	*Counties*							
1 Barrie............	Simcoe.........	178,884	3	100	33	4,386	....	201
2 Collingwood.......	Simcoe.........	168,253	1	27	27	1,380	....	81
3 Lindsay..........	Victoria........	129,564	6	168	28	5,939	....	639
4 Mount Forest.....	Wellington.....	121,468	2	43	22	1,303	....	149
5 Orillia............	Simcoe.........	112,614	5	161	32	4,215	....	402
6 Waterloo.........	Waterloo.......	112,044	11	407	37	14,591	....	1,004
7 Hespeler..........	Waterloo.......	107,142	1	31	31	1,217	....	68
8 Dundas...........	Wentworth.....	101,520	3	102	34	2,902	....	161
9 Picton............	Prince Edward..	98,928	2	46	23	1,213	....	87
10 Seaforth..........	Huron.........	97,550	2	49	25	1,466	....	492
11 Oakville..........	Halton.........	95,726	2	43	22	1,674	....	113
12 Leamington.......	Essex..........	93,913	3	88	29	2,130	....	239
13 St. Mary's........	Perth..........	92,506	2	44	22	1,966	....	174
14 Brockville........	Leeds..........	92,170	8	222	28	7,000	60	714
15 Parkhill..........	Middlesex......	89,000	1	25	25	603	....	127
16 Smith's Falls......	Lanark.........	86,950	6	162	27	4,154	....	493
17 Prescott..........	Grenville.......	86,801	4	87	22	3,000	....	338
18 Whitby..........	Ontario........	86,532	2	43	22	1,731	....	171
19 Renfrew..........	Renfrew........	84,902	15	537	36	19,418	....	1,247
20 Preston...........	Waterloo.......	84,812	9	300	33	9,190	....	982
21 Ingersoll..........	Oxford.........	83,333	3	75	25	2,995	....	330
22 Trenton..........	Hastings.......	80,484	6	197	33	5,891	....	768
23 Tilbury...........	Kent..........	79,085	7	251	36	6,397	....	2,307
24 Campbellford......	Northumberland	77,297	2	68	34	1,689	....	210
25 Paris.............	Brant..........	74,885	2	47	24	1,235	....	270
26 Cobourg..........	Northumberland	74,235	5	176	35	4,316	....	405

SEPARATE SCHOOLS

STATISTICS, 1937

	Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness		Other Indebtedness	
	Current E	Capital F	Current	Capital	Total	Amount	Per $1,000 of Assessment	Amount	Per $1,000 of Assessment
	$	$				$	$ c.	$	$ c.
1	451,163	162,232	21.4	7.7	29.1	647,206H	13.26	42,000	.86
2	17,598	....	21.0	....	21.0	....	....	8,000	4.62
3	30,779	....	22.8	....	22.8	....	....	....	....
4	7,568	....	18.5	....	18.5	....	....	2,000	2.02
5	11,094	1,590	11.2	1.6	12.8	26,100	14.04	4,000	2.15
6	47,800	6,447	15.6	2.1	17.7	....	....	131,658	23.43
7	28,074	....	19.7	....	19.7	....	....	....	....
8	4,642	500	16.6	1.8	18.4	8,000	17.87	....	....
9	206,799	D	16.9	D	....	2,635,412I	131.01	60,000	2.98
10	46,493	18,259	19.5	7.7	27.2	135,933	22.54	5,937	.98
11	12,201	5,287	16.1	7.0	23.1	. 70,000	50.14	3,500	2.51
12	14,508	3,347	16.9	3.9	20.8	43,513	27.05	....	....
13	122,667	28,933	14.7	3.6	18.3	355,024	26.24	36,936	2.73
14	20,293	9,690	16.9	8.1	25.0	68,081	42.34	27,241	16.94
15	20,825	10,401	12.5	6.2	18.7	39,128	19.86	9,704	4.92
16	388,504	116,369	18.6	5.6	24.2	1,630,000	54.33	400,000	13.33
17	13,342	176	17.1	.2	17.3	4,400	3.87	....	....
18	3,944	....	15.5	....	15.5	....	....	....	....
19	28,822	....	16.4	....	16.4	....	....	5,151	1.99
20	12,200	2,000P	15.3	2.5	17.8	....	....	....	....
21	6,252	1,674	14.5	3.9	18.4	21,755	47.96	1,300	2.87
	1,495,568	366,905	18.3	5.8	24.1	5,684,552	38.73	737,427	5.02
1	35,424	11,098	16.9	5.3	22.2	129,000	27.83	....	....
2	22,102	5,013	17.9	4.1	22.0	30,949	11.05	3,100	1.11
3	74,761	19,812	19.9	5.3	25.2	309,754	77.93	....	....
4	35,666	11,039	14.0	4.3	18.3	100,110	44.26	....	....
5	33,783	7,989	16.8	4.0	20.8	24,500	12.15	....	....
	201,736	54,951	17.3	4.7	22.0	594,313	36.50	3,100	.19
	1,697,304	421,856	18.2	4.5	22.7	6,278,865	38.50	740,527	4.54
1	3,134	Q	18.4	Q	....	7,000	13.04	....	....
2	1,744	....	35.6	....	35.6	....	....	....	....
3	7,267	....	23.5	....	23.5	....	....	....	....
4	1,678	....	20.2	....	20.2	....	....	602	2.48
5	5,692	....	19.3	....	19.3	....	....	....	....
6	11,375	4,358	14.9	5.7	20.6	74,102	60.12	....	....
7	1,191	....	20.5	....	20.5	....	....	200	1.87
8	2,277	....	11.7	....	11.7	....	....	....	....
9	1,598	....	18.5	....	18.5	....	....	2,500	12.64
10	2,503	....	27.8	....	27.8	....	....	....	....
11	2,263	....	27.7	....	27.7	....	....	850	4.44
12	2,473	....	14.6	....	14.6	....	....	....	....
13	1,956	....	23.7	....	23.7	....	....	....	....
14	8,817	837	22.3	2.1	24.4	7,531	10.21	....	....
15	743	....	16.5	....	16.5	....	....	....	....
16	3,038	2,408	16.3	7.8	24.1	19,265	36.93	....	....
17	3,762	....	23.9	....	23.9	....	....	....	....
18	2,108	....	26.1	....	26.1	....	....	....	....
19	12,710	8,915	12.5	8.8	21.3	127,000	99.72	514	.40
20	11,129	....	20.7	....	20.7	....	....	23,250	30.46
21	3,403	....	24.4	....	24.4	....	....	....	....
22	6,506	4,816	18.2	13.5	31.7	86,695	179.52	5,040	10.44
23	8,352	2,065	17.5	4.3	21.8	33,025	59.66	....	....
24	2,043	....	16.9	....	16.9	....	....	....	....
25	2,707	....	29.0	....	29.0	....	....	....	....
26	4,643	....	14.0	....	14.0	....	....	....	....

THE ROMAN CATHOLIC

TABLE 28—FINANCIAL

Towns	Counties	Assessment per Classroom[A]	No. of Classrooms	A.D.A.[B] for the Calendar Year	A.D.A.[B] per Classroom	Major Sources of Receipts		
						School District Levy [c]	County Grant	Legislative Grant
27 Gananoque	Leeds	71,062	4	124	32	2,531	....	336
28 Goderich	Huron	70,000	2	56	28	1,466	....	235
29 Newmarket	York	65,679	2	46	23	2,381	....	251
30 Merritton	Lincoln	65,504	2	65	33	1,832	....	201
31 Thorold	Welland	62,779	8	348	44	7,377	....	931
32 Amherstburg	Essex	60,975	10	310	31	8,390	800	516
33 Cornwall	Stormont	58,930	58	2,435	42	46,093	....	7,631
43 Perth	Lanark	58,849	5	138	28	4,793	....	679
35 Hanover	Grey	58,759	2	67	34	2,471	....	493
36 Arnprior	Renfrew	56,361	11	348	32	9,549	....	1,260
37 Mimico	York	55,515	7	282	40	8,226	....	894
38 Blenheim	Kent	48,497	1	24	24	402	....	490
39 Weston	York	46,605	5	189	38	6,184	....	1,679
40 Wallaceburg	Kent	45,410	12	283	24	8,856	....	3,088
41 Walkerton	Bruce	44,510	6	183	30	3,090	....	1,029
42 Midland	Simcoe	43,873	10	403	40	2,090	....	2,915
43 Essex	Essex	43,445	2	37	18	563	....	1,231
44 La Salle	Essex	42,561	5	159	32	3,130	366	1,128
45 Riverside	Essex	41,515	14	495	35	16,433	718	1,870
46 Pembroke	Renfrew	37,470	29	862	30	14,696	....	4,819
47 Alexandria	Glengarry	32,891	13	417	32	10,029	....	3,128
48 Almonte	Lanark	32,576	5	99	20	1,179	....	1,424
49 Tecumseh	Essex	32,436	15	511	34	7,428	836	5,354
50 Vankleek Hill	Prescott	32,236	6	194	32	1,854	....	1,597
51 Eastview	Carleton	28,644	23	906	39	19,279	153	7,423
52 Hawkesbury	Prescott	27,665	32	1,187	37	22,349	....	10,898
53 Clarkstown [K]	Carleton	21,042	11	395	36	7,853	....	4,966
54 Rockland	Russell	20,166	15	457	30	6,807	....	4,262
Totals and Averages		56,196	428	14,519	34	339,332	2,933	82,900
	Districts							
55 Cochrane	Cochrane	75,034	8	259	32	9,804	....	2,296
56 Fort Frances	Rainy River	74,289	9	283	31	10,965	....	639
57 New Liskeard	Timiskaming	69,615	3	74	25	4,600	....	531
58 Kenora	Kenora	55,189	7	222	32	4,065	....	907
59 Coniston	Sudbury	53,111	10	371	37	12,826	....	4,430
60 Iroquois Falls	Cochrane	52,337	7	235	34	17,056	....	2,648
61 Sioux Lookout	Kenora	45,269	4	119	30	3,978	....	2,449
62 Timmins	Cochrane	45,079	62	2,145	35	96,649	....	30,376
63 Hearst	Cochrane	37,710	5	157	31	4,625	....	2,582
64 Rainy River	Rainy River	35,242	2	38	19	1,855	....	737
65 Sturgeon Falls	Nipissing	35,217	25	253	38	19,985	....	5,817
66 Haileybury	Timiskaming	32,561	7	179	26	3,250	....	3,926
67 Blind River	Algoma	28,415	11	386	35	9,528	....	2,441
68 Charlton	Timiskaming	26,815	1	21	21	613	....	789
69 Keewatin	Kenora	26,568	2	38	19	437	....	485
70 Kearney	Parry Sound	25,283	1	23	23	315	....	326
71 Cache Bay	Nipissing	25,107	4	133	33	2,600	....	1,497
72 Chelmsford	Sudbury	24,884	7	236	34	4,150	....	5,315
73 Massey	Sudbury	23,506	2	82	41	650	....	1,790
74 Mattawa	Nipissing	22,702	9	325	36	4,847	....	4,617
75 Cobalt	Timiskaming	18,568	10	308	31	7,130	....	8,477
76 Smooth Rock Falls	Cochrane	17,823	6	178	30	6,261	....	7,051
77 Bonfield	Nipissing	12,437	4	150	37	1,955	....	3,765
78 Little Current	Manitoulin	8,530	2	37	19	242	....	1,727
Totals and Averages		40,423	208	6,952	33	228,386	....	95,618
Totals and Averages, All Towns		51,038	636	21,471	34	567,718	2,933	178,518

SEPARATE SCHOOLS

STATISTICS, 1937

	Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness		Other Indebtedness	
	Current E	Capital F	Current	Capital	Total	Amount	Per $1,000 of Assessment	Amount	Per $1,000 of Assessment
	$	$				$	$ c.	$	$ c.
27	4,100	2,408	18.2	10.7	28.9	27,082	95.36	....	....
28	2,325	....	21.8	....	21.8	....	....	1,500	10.71
29	1,986	....	23.5	....	23.5	....	....	2,918	22.21
30	2,071	....	18.3	....	18.3	....	....	....	....
31	8,533	....	12.9	....	12.9	31,799J	63.31	....	....
32	8,160	1,850	13.9	3.1	17.0	....	....	32,800	53.79
33	56,128	....	13.0	....	13.0	....	....	....	....
34	6,747	....	26.0	....	26.0	....	....	....	....
35	2,221	1,452	19.6	12.8	32.4	23,248	197.82	....	....
36	10,262	....	15.8	....	15.8	....	....	300	.48
37	8,448	8,113	18.0	17.3	35.3	....	....	57,000	146.68
38	1,316	....	31.8	....	31.8	....	....	424	.87
39	6,233	....	19.9	....	19.9	....	....	....	....
40	11,537	3,249	17.2	4.8	22.0	58,206	106.82	3,500	6.42
41	6,682	....	19.9	....	19.9	....	....	7,987	29.90
42	9,998	2,530	13.1	3.3	16.4	13,769	31.38	21,000	47.87
43	2,426	....	33.5	....	33.5	....	....	8,450	97.25
44	4,509	D	14.9	D	....	68,872	323.64	....	....
45	17,987	D	19.0	D	....	160,019	275.38	....	....
46	23,727	D	14.5	D	....	57,750	53.15	176	.16
47	9,389	628	12.0	.8	12.8	3,000	7.02	1,200	2.81
48	4,040	....	21.3	....	21.3	....	....	....	....
49	18,327	D	18.7	D	....	77,165	158.60	3,851	7.92
50	4,361	....	11.8	....	11.8	....	....	....	....
51	22,884	3,244	13.3	1.9	15.2	45,000	68.30	....	....
52	32,980	....	15.2	....	15.2	....	....	....	....
53	9,307	D	12.4	D	....	63,822	275.74	....	....
54	10,535	900	12.1	1.0	13.1	6,000	19.83	....	....
	424,331	47,773	15.7	1.8	17.5	990,350	41.18	174,062	7.24
55	11,600	Q	22.4	Q	....	Q	....	....	....
56	8,309	4,427	15.4	8.2	23.6	85,222	127.46	11,371	17.01
57	4,064	1,072	28.7	7.6	36.3	16,082	77.00	600	2.87
58	5,442	300	12.9	.7	13.6	22,000L	56.95L	1,055	2.73
59	16,170	....	23.2	....	23.2	....	....	....	....
60	15,236	7,895	34.1	17.7	51.8	13,183	35.98	....	....
61	5,698	1,891	24.8	8.2	33.0	34,639	191.30	1,033	5.70
62	85,374	31,563	19.9	7.4	27.3	306,686	109.73	1,237	.44
63	5,905	1,280	20.1	4.4	24.5	19,282	102.26	6,463	34.28
64	2,054	677	28.4	9.4	37.8	6,611	93.79	19	.27
65	25,929	D	14.3	D	....	70,901	80.53	....	....
66	8,326	D	24.4	D	....	22,232	97.54	2,066	9.06
67	11,979	D	17.8	D	....	29,981	9.59	4,612	65.88
68	1,276	....	32.2	....	32.2	....	....	....	....
69	1,002	....	13.9	....	13.9	....	....	500	9.41
70	838	....	18.9	....	18.9	....	....	300	11.87
71	3,554	....	14.0	....	14.0	....	....	....	....
72	9,521	1,170	21.9	2.7	24.6	13,577	77.94	1,400	8.04
73	3,417	....	22.1	....	22.1	....	....	1,000	21.27
74	9,760	802	15.8	1.3	17.1	8,042	39.36	....	....
75	15,562	1,203	26.6	2.1	28.7	12,036	64.82	....	....
76	13,424	....	37.6	....	37.6	....	....	....	....
77	4,090	1,447	13.8	4.9	18.7	20,220	40.64	....	....
78	2,418	....	34.1	....	34.1	....	....	....	....
	270,948	53,727	20.2	4.0	24.2	680,694	80.96	30,601	3.64
	695,279	101,500	17.2	2.5	19.7	1,671,044	51.48	204,663	6.31

THE ROMAN CATHOLIC

TABLE 28—FINANCIAL

Villages	Counties	Assessment[A] per Classroom	No. of Classrooms	A.D.A.[B] for the Calendar Year	A.D.A.[B] per Classroom	Major Sources of Receipts		
						School District Levy[C]	County Grant	Legislative Grant
		$				$	$	$
1 Forest Hill........	York..........	535,810	1	51	51	5,358	....	87
2 Arthur...........	Wellington.....	141,657	2	68	34	1,997	....	376
3 Belle River.......	Essex..........	97,507	7	173	25	5,617	635	712
4 Port Dalhousie....	Lincoln........	85,392	2	67	34	3,450	....	717
5 Elora.............	Wellington.....	85,093	1	28	28	642	....	110
6 Westport.........	Leeds..........	76,266	2	80	40	1,710	....	245
7 Swansea..........	York..........	71,790	1	30	30	1,499	....	613
8 Tweed............	Hastings.......	71,393	3	107	33	1,765	....	819
9 Fergus............	Wellington.....	70,349	1	20	20	607	....	126
10 Mildmay.........	Bruce..........	68,228	3	104	35	2,047	180	1,335
11 Hastings..........	Northumberland	61,140	2	53	26	1,143	143	576
12 Teeswater........	Bruce..........	60,122	1	29	29	701	....	123
13 Chesterville.......	Dundas........	52,233	2	40	20	1,213	....	559
14 Eganville.........	Renfrew........	49,801	4	106	27	1,263	....	582
15 Portsmouth.......	Frontenac......	44,528	1	43	43	599	....	237
16 Marmora.........	Hastings.......	42,571	2	41	22	1,235	....	802
17 Barry's Bay.......	Renfrew........	40,545	7	241	34	4,377	175	4,136
18 Lancaster.........	Glengarry......	30,352	4	112	28	1,362	256	2,566
19 Casselman........	Russell.........	29,433	9	260	29	5,000	387	2,763
20 Killaloe...........	Renfrew........	29,052	5	95	19	1,641	177	4,050
Totals and Averages	....	65,037	60	1,748	29	43,226	1,953	21,534
	Districts							
21 Thornloe.........	Temiskaming...	30,223	1	24	24	455	....	398
Totals and Averages	, All Villages.....	64,466	61	1,772	29	43,681	1,953	21,932
Totals and Averages	, All Urban......	93,514	2,133	72,698	34	2,629,668	4,886	351,440
Grand Totals and A	verages.........	83,526	2,917	93,597	32	3,043,255	26,591	728,178

A Local Assessment in the case of Cities, Separated Towns, and the Districts; in all other cases Equalized Assessment.

B Average Daily Attendance.

C Includes levy for Capital Charges.

D In default.

E Operating costs only.

F Debt charges.

G Essex County partly in default.

INDEX TO TOWNS AND VILLAGES—TABLE 28

Towns

Alexandria.................. 47
Almonte.................... 48
Amherstburg............... 32
Arnprior................... 36

Barrie...................... 1
Blenheim................... 38
Blind River................ 67
Bonfield................... 77

Brockville.................. 14
Cache Bay.................. 71
Campbellford.............. 24
Charlton................... 68

Chelmsford................ 72
Clarkstown................ 53
Cobalt..................... 75
Cobourg................... 26

Cochrane.................. 55
Collingwood............... 2
Coniston................... 59
Cornwall................... 33

Dundas.................... 8
Eastview.................. 51
Essex..................... 43
Fort Frances.............. 56

Gananoque................ 27
Goderich.................. 28
Haileybury................ 66
Hanover................... 35

Hawkesbury............... 52
Hearst.................... 63
Hespeler.................. 7
Ingersoll.................. 21

Iroquois Falls............. 60
Kearney................... 70
Keewatin.................. 69
Kenora.................... 58

La Salle................... 44
Leamington............... 12
Lindsay................... 3
Little Current............. 78

Massey.................... 73
Mattawa................... 74
Merritton.................. 30
Midland.................. 42

Mimico.................... 37
Mount Forest............. 4
Mew Liskeard............. 57
Newmarket............... 29

SEPARATE SCHOOLS

STATISTICS, 1937

	Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness		Other Indebtedness	
	Current E	Capital F	Current	Capital	Total	Amount	Per $1,000 of Assessment	Amount	Per $1,000 of Assessment
	$	$				$	$ c.	$	$ c.
1	1,971	1,840	20.2	18.8	39.0	M	....	....	....
2	2,969	....	22.9	....	22.9	....	....	....	....
3	5,847	1,744	17.7	5.2	22.9	22,668	33.21	1,500	2.20
4	4,680	....	37.9	....	37.9	....	....	....	....
5	761	....	14.4	....	14.4	....	....	....	....
6	1,848	....	12.4	....	12.4	....	....	....	....
7	1,671	740	29.1	12.8	41.9	N	....	....	....
8	3,338	....	16.1	....	16.1	....	....	....	....
9	777	....	20.3	....	20.3	....	....	....	....
10	3,974	1,156	20.2	5.8	26.0	6,936	33.90	37	.18
11	2,127	....	21.5	....	21.5	....	....	500	4.09
12	731	....	12.8	....	12.8	....	....	1,500	24.9
13	2,162	....	29.0	....	29.0	....	....	....	....
14	3,082	....	15.3	....	15.3	....	....	....	....
15	841	....	11.0	....	11.0	....	....	26	.58
16	1,920	523	25.7	7.0	32.7	2,485	29.19	2,227	26.1
17	8,686	1,955	19.6	4.4	24.0	35,202	124.03	....	....
18	5,122	....	24.1	....	24.1	....	....	....	....
19	7,632	1,041	15.8	2.1	17.9	14,039	53.00	1,590	6.00
20	5,748	3,523	32.5	19.9	52.4	5,615	38.65	....	....
	65,887	12,522	20.1	6.7	26.8	86,945	52.18	7,380	1.89
21	1,144	D	23.7	D	....	1,111	36.76	....	....
	67,031	12,522	20.1	6.7	26.8	88,056	51.90	7,380	1.88
	2,459,614	535,878	18.0	3.9	21.9	8,037,965	40.30	952,570	4.78
	3,277,256	624,855	18.6	3.6	22.2	8,918,510	36.60	1,064,233	4.37

H While this debt is a liability of the Separate School supporters of the City of Toronto it covers the Separate Schools of Toronto, the villages of Forest Hill and Swansea, and the Townships of York, East York, and Scarborough.

I Debt Remaining, 1,868,442; Arrears, 961,832; Reserve, 194,862.

J An Archdiocesan debt.

K Clarkstown is Ward 6 of Eastview

L Capital loan of $12,000 plus unpaid interest.

M Debt of $20,000 with Sinking Fund of $4,063. Included in figure for Toronto.

N Debt of $8,000 with Sinking Fund of $1,883. Included in figure for Toronto.

P Rent.

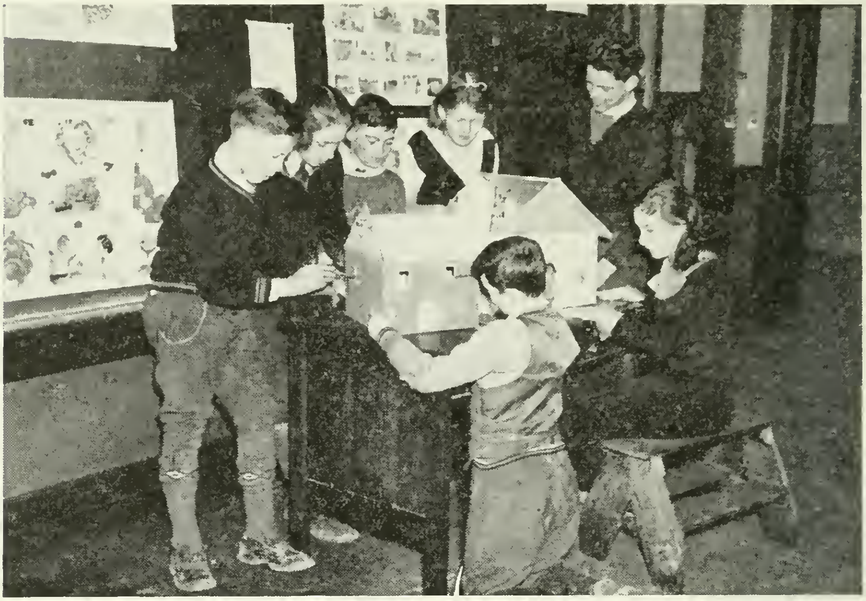
Q No return received.

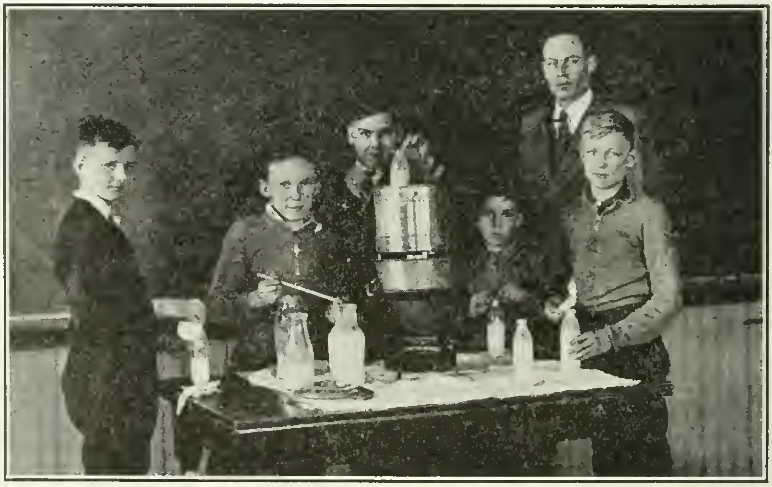
INDEX TO TOWNS AND VILLAGES—TABLE 28—Continued

Oakville.................... 11
Orillia..................... 5
Paris....................... 25
Parkhill.................... 15
Pembroke.................... 46
Perth....................... 34
Picton...................... 9
Prescott.................... 17
Preston..................... 20
Rainy River................. 64
Renfrew..................... 19
Riverside................... 45
Rockland.................... 54
St. Mary's.................. 13
Seaforth.................... 10
Sioux Lookout............... 61
Smith's Falls............... 16
Smooth Rock Falls.......... 76
Sturgeon Falls.............. 65
Tecumseh.................... 49
Thorold..................... 31
Tilbury..................... 23
Timmins..................... 62
Trenton..................... 22
Vankleek Hill............... 50
Walkerton................... 41
Wallaceburg................. 40
Waterloo.................... 6
Weston...................... 39
Whitby...................... 18

VILLAGES

Arthur...................... 2
Barry's Bay................. 17
Belle River................. 3
Casselman................... 19
Chesterville................ 13
Eganville................... 14
Elora....................... 5
Fergus...................... 9
Forest Hill................. 1
Hastings.................... 11
Killaloe.................... 20
Lancaster................... 18
Marmora..................... 16
Mildmay..................... 10
Port Dalhousie.............. 4
Portsmouth.................. 15
Swansea..................... 7
Teeswater................... 12
Thornloe.................... 21
Tweed....................... 8
Westport.................... 6





EXAMPLE OF PROJECT METHODS UNDER NEW COURSE OF STUDY

THE SECONDARY SCHOOLS

TABLE 29—CLASSIFICATION OF ACADEMIC PUPILS BY SUBJECTS OF STUDY, 1937-38

SUBJECTS	High Schools and Collegiate Institutes	Continuation Schools	Totals	SUBJECTS	High Schools and Collegiate Institutes	Continuation Schools	Totals
Lower School							
English Composition	41,363	5,574	46,937	French	34,923	4,986	39,909
English Literature	36,773	5,582	42,355	Special French	402	14	416
British History	21,553	3,502	25,055	Greek	57	....	57
Physiography	15,539	2,425	17,964	German	1,575	....	1,575
General Mathematics	22,036	3,392	25,428	Manual Training	3,946	60	4,006
Geometry	15,655	2,346	18,001	Household Science	4,659	63	4,722
Arithmetic	14,978	2,178	17,156	Vocal Music	17,644	2,095	19,739
English Grammar	14,056	2,092	16,148	Business Practice	21,454	3,268	24,722
Art	21,134	3,511	24,645				
Geography	21,140	3,564	24,704	Health and Physical Education	33,377	5,177	38,554
General Science	13,639	2,648	16,287	Civics	1,578	46	1,624
Zoology	5,824	1,210	7,034	Library Science	679	....	679
				Penmanship and Spelling	1,771	....	1,771
Agriculture and Horticulture I	7,841	981	8,822	Social Studies	137	....	137
				Commercial History	127	....	127
Agriculture and Horticulture II	4,451	513	4,964	Music Appreciation	268	....	268
Latin	13,971	1,966	15,937				
Middle School							
English Composition	17,885	2,820	20,705	French	21,244	3,583	24,827
English Literature	18,947	2,770	21,717	Special French	341	17	358
Algebra	15,459	1,816	17,275	German	2,483	....	2,483
Geometry	12,722	1,657	14,379	Spanish	129	....	129
Physics	10,717	1,243	11,960	Manual Training	169	....	169
Chemistry	9,595	1,417	11,012	Household Science	150	....	150
				Art	91	....	91
Agriculture and Horticulture I	2,652	245	2,897	Vocal Music	974	....	974
Agriculture and Horticulture II	1,937	269	2,206	Bookkeeping and Penmanship	124	4	128
Canadian History	15,300	1,687	16,987	Stenography and Typing	161	18	179
Ancient History	10,931	1,581	12,512	Business Practice	9	....	9
Latin	19,547	2,151	21,698	Library Science	129	....	129
Greek	115	....	115				
Upper School							
Englsh Composition	7,959	376	8,335	Zoology	2,171	92	2,263
English Literature	7,615	394	8,009	Latin	2,394	79	2,473
Algebra	4,279	198	4,477	Greek	47	....	47
Geometry	4,497	186	4,683	French	5,296	211	5,507
Trigonometry	5,461	202	5,663	Special French	103	....	103
Modern World History	3,614	201	3,815	German	486	....	486
Physics	2,675	119	2,794	Spanish	10	2	12
Chemistry	2,908	94	3,002	Music	80	....	80
Botany	2,210	98	2,308				
Commercial Course							
				Commercial Geography	319	....	319
Literature (including Oral Reading)	1,392	70	1,462				
				Arithmetic (including Rapid Calculation)	1,564	78	1,642
Composition (including English Grammar)	541	43	584	Penmanship and Spelling	1,571	87	1,658
Composition (including Business Corresp'dence	1,260	39	1,299	Bookkeeping (including Business Forms)	1,562	72	1,634
Canadian History and Civics	712	30	742	Office Practice (including Business Law)	1,014	28	1,042
British History	120	....	120	Typewriting	1,675	86	1,761
Shorthand	1,610	81	1,691	Physiography	642	9	651
				French	270	9	279
				German	8	....	8

A Commercial Course Class was enrolled in the following Schools:

COLLEGIATE INSTITUTES

Cobourg
Collingwood
Goderich
Lindsay
Orillia
Smith's Falls
Ingersoll
Morrisburg
Scarborough
Windsor (Sandwich)
York Memorial

HIGH SCHOOLS

Almonte
Amherstburg
Arnprior
Beamsville
Blenheim
Bowmanville
Brampton
Burlington
Carleton Place
Chapleau
Dundas
Dunnville
Elmira
Fergus
Gananoque
Grimsby
Hagersville
Hanover
Kenora
Leamington
Listowel
Markdale
Meaford
Merritton
Midland
Mitchell
Mimico
Nepean
New Liskeard
Newmarket
Oakville
Orangeville
Paris
Port Colborne
Port Credit
Port Hope
Richmond Hill
Ridgeway
Saltfleet
Sturgeon Falls
Thorold
Uxbridge
Walkerton
Wallaceburg
Waterdown
Whitby
Wiarton
Winchester
Wingham

CONTINUATION SCHOOLS

Long Branch
Pelham
Preston

THE SECONDARY SCHOOLS

TABLE 30—ADMISSIONS AND DESTINATIONS OF SECONDARY SCHOOL PUPILS, 1937-38

Beginners to Secondary Schools Admitted from—	Collegiate Institutes and High Schools		Continuation Schools		Vocational Schools		Totals	
	Number	Per cent.	Number	Per cent.	Number	Per cent.	Number	Per cent.
Publicly-controlled Elementary Schools	20,334	96.2	3,303	97.0	11,450	92.9	35,087	95.2
Private Schools	165	.8	1	......	488	4.0	654	1.8
Other Sources	631	3.0	101	3.0	388	3.1	1,120	3.0
Totals	21,130	......	3,405	......	12,326	......	36,861	......
Destination of Pupils leaving Secondary School during or at the end of the School Year 1937-38								
Commerce	1,925	12.1	159	6.7	2,634	20.7	4,718	15.2
Agriculture	1,542	9.7	624	26.2	292	2.3	2,458	7.9
Normal School	614	3.8	32	1.3	11	.3	657	2.1
College or University	1,732	10.9	64	2.7	127	1.0	1,923	6.2
Business College	1,092	6.9	156	6.5	249	1.9	1,497	4.8
Private School	502	3.1	40	1.7	90	.7	632	2.0
Trades	971	6.1	137	5.7	1,483	11.6	2,591	8.3
Other Occupations	2,764	17.4	559	23.4	2,216	17.4	5,539	17.8
Without Occupation	2,732	17.2	497	20.8	2,587	20.3	5,816	18.7
By Death or Disability	197	1.3	25	1.2	166	1.3	388	1.6
Unknown	1,831	11.5	92	3.8	2,867	22.5	4,790	15.4
Totals	15,902	......	2,385	......	12,722	......	31,009	......

TABLE 31—ANNUAL DEPARTMENTAL EXAMINATION RESULTS, 1938

(a) Statement showing Number of Pupils Recommended for Standing in Grade IX and Lower School Subjects, June 1938, under the provisions of Circular No. 84, 1938.

Number of Pupils Granted Standing by Subjects

English Grammar	7,306
Geography (Social Studies)	11,355
Art	11,396
Physiography	7,919
British History (Social Studies)	10,885
Arithmetic (Mathematics)	11,471
Botany (General Science)	6,454
Zoology	3,605
Agriculture (First Year) (Agricultural Science)	4,345
Agriculture (Second Year)	2,455
French Grammar (For French-speaking pupils)	527
Total	77,718

Number of Schools Reporting Pupils

Public School Fifth Classes	962
Roman Catholic Separate School Fifth Classes	187
Secondary Schools	411
Private Schools authorized to recommend pupils	28
Total	1,588
Total Number of Candidates	21,823

Circular No. 84.

MEMORANDUM

To Principals of Collegiate Institutes, High, Continuation and Vocational Schools, and Fifth Classes of the Public and Separate Schools.

Notice is hereby given that the Lower School examinations are abolished, and former regulations relating to them are cancelled. Hereafter, Lower School standing will be granted to pupils under the following conditions:

(1) that the principals and teachers certify that these pupils have completed satisfactorily the prescribed courses of study of Grade IX and of the second form of the Lower School, which fulfil the Lower School requirements for admission to Normal,

(2) that the pupils have passed the tests given by the teachers concerned.

(3) that the inspectors report favourably upon the teaching and organization of the classes in which these pupils are enrolled.

In June, principals will forward to the Department of Education upon a form supplied by the Department the names of students who are planning to attend the Normal Schools, and who are recommended for standing.

Toronto, May 25th, 1938.

(b) June Middle School

Subjects	Number of Candidates	Candidates Recommended		Candidates Writing			Aegrotat	Appeals		Total Number Successful	Per Cent.	
		Total Number	Per cent. Recommended	Total Number	Number Passing	Per cent. Passing		Total Number	Number Sustained		1938	1937
English Composition	16,895	3,865	22.88	12,982	6,973	53.71	48	131	39	10,925	64.66	58.91
English Literature	15,162	4,642	30.62	10,483	5,713	54.50	37	88	16	10,408	68.65	70.54
Canadian History	17,987	5,579	31.02	12,382	5,751	46.45	26	171	35	11,391	63.33	68.45
Ancient History	13,252	4,545	34.30	8,680	4,506	51.91	27	138	34	9,112	68.76	79.15
Algebra	15,649	5,208	33.28	10,411	6,919	66.46	30	73	9	12,166	77.74	80.18
Geometry	13,889	4,761	34.28	9,092	5,161	56.76	36	105	34	9,992	71.95	71.24
Physics	12,596	4,286	34.03	8,273	5,015	60.62	37	91	31	9,369	74.38	80.70
Chemistry	11,514	3,836	33.32	7,642	5,180	67.78	36	69	9	9,061	78.70	84.46
Latin Authors	10,055	3,379	33.61	6,635	4,346	65.50	41	82	36	7,802	77.59	76.81
Latin Composition	10,558	3,433	32.52	7,069	4,661	65.94	56	87	18	8,168	77.36	74.90
French Authors	11,224	4,016	35.78	7,162	4,378	61.13	46	62	13	8,453	75.31	80.64
French Composition	11,492	3,054	26.58	8,394	5,132	61.14	44	85	24	8,254	71.82	75.58
German Authors	1,085	698	64.33	384	251	65.36	3	7	2	954	87.93	94.81
German Composition	1,097	498	45.40	595	335	56.30	4	3	....	837	76.30	88.52
Special French Literature	414	54	13.04	358	239	66.76	2	4	2	297	71.74	64.00
Special French Composition	405	35	8.64	367	255	69.48	3	9	3	296	73.09	67.60
Greek Authors	51	30	58.82	21	13	61.90	....	....	....	43	84.31	94.92
Greek Accidence	53	24	45.28	29	20	68.96	....	....	....	44	83.02	91.53
Spanish Authors	103	39	37.86	64	47	73.44	....	....	....	86	83.50	72.00
Spanish Composition	118	19	16.10	99	66	66.67	....	1	....	85	72.03	68.18
Italian Authors	3	....	....	3	3	100.00	....	....	....	3	100.00	37.50
Italian Composition	3	....	....	3	3	100.00	....	....	....	3	100.00	25.00
Agriculture I	2,099	851	40.54	1,239	933	75.30	9	7	3	1,796	85.56	80.04
Agriculture II	1,661	604	36.36	1,044	811	77.69	13	5	1	1,429	86.03	86.68
Music	42	25	59.52	17	15	88.24	....	....	....	40	95.24	95.24
Technical Arithmetic	267	99	37.08	168	71	42.26	....	1	....	170	63.67	66.91
Household Science I	94	51	54.26	43	29	67.44	....	....	....	80	85.11	91.89
Household Science II	63	21	33.33	42	28	66.67	....	1	....	49	77.78	74.47
Special Arithmetic	6	1	16.67	5	4	80.00	....	....	....	5	81.25	87.50
Special Zoology	9	2	22.22	7	5	71.43	....	....	....	7	77.78	63.64
Commercial Physics	22	21	95.45	1	....	....	....	....	....	21	95.45	78.57
Commercial Chemistry	16	14	87.50	2	....	....	....	....	....	14	87.50	86.67
Commercial Geography	29	21	72.41	8	5	62.50	....	....	....	26	89.66	88.00
Business Arithmetic	21	16	76.19	5	3	60.00	....	....	....	19	90.48	62.90
Totals	167,934	53,727	31.99	113,709	66 871	58.81	498	1 220	309	121,405	72.29	74.90

Total Number of Candidates............. 35,745 Total Number of Centres.................. 509

(c) June Upper School

Subjects	Number of Candidates	Candidates Recommended		Candidates Writing				Aegrotat	Appeals			Total Number Successful	Per Cent.	
		Total Number	Per cent. Recommended	Total Number	Number Passing	Per cent. Passing	Number Granted M. S. Standing		Total Number	Number Sust'd.	Number Granted M. S. Standing		1938	1937
English Composition	10,762	2,508	23.30	8,226	5,607	68.16	124	28	104	26	15	8,169	75.91	68.18
English Literature	9,326	2,793	29.95	6,511	3,058	46.97	73	22	170	28	20	5,901	63.27	69.58
Modern History	4,553	1,406	30.88	3,132	1,635	52.20	....	15	128	37	....	3,093	67.93	72.04
Algebra	5,296	1,600	30.21	3,686	2,379	64.54	2	10	69	25	3	4 014	75.79	67.70
Geometry	5,605	1,784	31.83	3,803	2,456	64.58	15	18	74	14	4	4,272	76.22	90.29
Trigonometry	6,682	2,484	37.17	4,177	2,508	60.04	....	21	56	7	....	5,020	75.13	77.66
Botany	2,522	848	33.66	1,668	964	57.79	....	5	44	15	....	1,832	72.64	78.98
Zoology	2,609	990	37.95	1,610	1,030	63.98	....	9	38	13	....	2,042	78.27	75.49
Physics	3,330	1,112	33.39	2,205	1,635	74.15	....	13	36	15	....	2,775	83.34	70.80
Chemistry	3,646	1,149	31.51	2,483	1,565	63.03	6	14	45	14	1	2,742	75.21	85.65
Latin Authors	2,934	983	33.50	1,943	931	47.92	16	8	71	27	4	1,949	66.43	68.51
Latin Composition	2,905	778	26.78	2,115	1,234	58.35	7	12	60	16	3	2,040	70.22	72.45
French Authors	6,639	2,259	34.03	4,350	3,181	73.13	33	30	112	38	6	5,508	82.96	77.80
French Composition	6,552	1,703	25.99	4,823	3,096	64.19	64	26	157	60	8	4,885	74.56	77.73
German Authors	583	315	54.03	266	241	90.60	....	2	2	....	....	558	95.71	90.21
German Composition	608	251	41.28	354	282	79.66	5	3	6	1	....	537	88.32	80.73
Greek Authors	34	11	32.35	23	20	86.96	....	....	....	....	....	31	91.18	92.00
Greek Composition	38	12	31.58	26	22	84.62	....	....	....	....	....	34	89.47	86.27
Spanish Authors	47	19	40.43	28	18	64.29	1	....	1	....	....	37	78.72	90.38
Spanish Composition	47	15	31.91	32	27	84.38	....	....	1	....	1	42	89.36	92.16
Special French Literature	175	11	6.29	164	95	57.93	2	....	7	1	1	107	61.14	59.42
Special French Composition	258	13	5.04	245	132	53.88	....	....	7	3	1	148	57.36	53.65
Italian Authors	10	....	....	10	9	90.00	....	....	....	....	....	9	90.00	89.47
Italian Composition	10	....	....	10	9	90.00	....	....	....	....	....	9	90.00	88.89
History of Commerce	20	16	80.00	4	2	50.00	....	....	....	....	....	18	90.00	77.78
Totals	75,191	23,060	30.67	51,894	32,136	61.93	348	236	1,188	340	67	55,772	74.17	73.89

Total Number of Candidates............ 19,281

Total Number of Centres.................. 480

(d) August Middle School

Subjects	Number of Candidates	Number Passing	Per cent. Passing	Appeals		Total Number Successful	Per Cent.	
				Total Number	Number Sustained		1938	1937
English Composition	12	10	83.33	1	....	10	83.33	79.31
English Literature	12	7	58.33	1	....	7	58.33	62.96
Canadian History	38	20	52.63	1	....	20	52.63	58.97
Ancient History	17	8	47.06	1	....	8	47.06	64.29
Algebra	16	9	56.25	1	....	9	56.25	67.86
Geometry	25	16	64.00	1	1	17	68.00	64.29
Physics	....	....	....	....	....	....	....	....
Chemistry	6	6	100.00	....	....	6	100.00	....
Special French Literature	6	6	100.00	....	....	6	100.00	41.67
Special French Composition	7	4	57.14	....	....	4	57.14	61.54
Totals and Averages	139	86	61.87	6	1	87	62.59	64.22

Total Number of Candidates................ 91 Total Number of Centres.................... 7

(e) August Upper School

Subjects	Number of Candidates	Number Writing	Number Passing	Percentage Passing	Aegrotat	Appeals			Total Number Successful	Per cent.	
						Total Number	Number Sustained	M. S. Standing		1938	1937
English Composition	209	209	140	66.99	1	9	....	....	141	67.47	64.25
English Literature	151	151	108	71.52	1	10	9	....	118	78.15	73.52
Modern History	247	247	161	65.18	....	14	....	....	161	65.18	49.58
Algebra	194	194	95	48.97	1	18	3	....	99	51.03	83.59
Geometry	224	224	37	16.52	1	13	3	....	41	18.30	47.73
Trigonometry	257	257	119	42.41	3	21	4	....	126	49.02	75.19
Botany	169	169	129	76.33	....	3	....	....	129	76.33	80.43
Zoology	163	163	117	71.77	1	6	2	....	120	73.62	76.17
Physics	58	58	39	67.24	....	2	1	....	40	68.97	60.21
Chemistry	77	77	64	83.12	....	4	....	....	64	83.25	64.77
Latin Authors	23	23	14	60.87	....	2	....	1	14	60.87	51.61
Latin Composition	22	22	12	54.54	....	....	....	....	12	54.54	48.84
French Authors	73	73	53	72.60	....	6	3	....	56	76.71	52.63
French Composition	83	83	59	71.08	....	4	2	....	61	73.46	65.52
German Authors	1	1	1	100.00	....	....	....	....	1	100.00	100.00
German Composition	2	2	2	100.00	....	....	....	....	2	100.00	50.00
Special French Literature	83	83	55	66.26	....	3	1	....	56	67.47	79.66
Special French Composition	71	71	54	76.06	....	2	....	....	54	76.06	79.63
Totals and Averages	2,107	2,107	1,267	60.13	8	117	28	1	1,295	61.46	67.28

Total Number of Candidates............. 1,381 Total Number of Centres.................... 17

THE SECONDARY

TABLE 32—SALARY RANGE, SECONDARY

Range	Continuation Schools						High Schools					
	P.	M.A.	F.A.	Total	Group Total	Group Percentage	P.	M.A.	F.A.	Total	Group Total	Group Percentage
$5,000	......	......	......	......			......	......	......	......	1	.10
$4,900–$4,999	......	......	......	......			......	......	......	......		
$4,800–$4,899	......	......	......	......			......	......	......	......		
$4,700–$4,799	......	......	......	......			......	......	......	......		
$4,600–$4,699	......	......	......	......			......	......	......	......		
$4,500–$4,599	......	......	......	......			......	......	......	......		
$4,400–$4,499	......	......	......	......			......	......	......	......		
$4,300–$4,399	......	......	......	......			1	......	......	1		
$4,200–$4,299	......	......	......	......			......	......	......	......		
$4,100–$4,199	......	......	......	......			......	......	......	......		
$4,000–$4,099	......	......	......	......			......	......	......	......		
$3,900–$3,999	......	......	......	......			......	......	......	......	10	.98
$3,800–$3,899	......	......	......	......			2	......	......	2		
$3,700–$3,799	......	......	......	......			2	......	......	2		
$3,600–$3,699	......	......	......	......			3	......	......	3		
$3,500–$3,599	......	......	......	......			3	......	......	3		
$3,400–$3,499	......	......	......	......			1	......	......	1	19	1.86
$3,300–$3,399	......	......	......	......			3	......	......	3		
$3,200–$3,299	......	......	......	......			2	......	......	2		
$3,100–$3,199	......	......	......	......			3	......	......	3		
$3,000–$3,099	......	......	......	......			10	......	......	10		
$2,900–$2,999	......	......	......	......	2	.42	5	......	......	5	60	5.88
$2,800–$2,899	1	......	......	1			10	1	......	11		
$2,700–$2,799	......	......	......	......			13	......	2	15		
$2,600–$2,699	......	......	......	......			8	2	......	10		
$2,500–$2,599	1	......	......	1			15	3	1	19		
$2,400–$2,499	1	......	......	1	11	2.28	12	4	1	17	176	17.25
$2,300–$2,399	1	......	......	1			13	12	14	39		
$2,200–$2,299	1	......	......	1			13	11	9	33		
$2,100–$2,199	4	......	......	4			11	11	18	40		
$2,000–$2,099	4	......	......	4			10	17	20	47		
$1,900–$1,999	5	......	1	6	97	20.12	2	32	37	71	506	49.62
$1,800–$1,899	13	......	1	14			7	31	54	92		
$1,700–$1,799	16	1	1	18			2	29	61	92		
$1,600–$1,699	23	1	......	24			1	35	80	116		
$1,500–$1,599	28	4	3	35			3	53	79	135		
$1,400–$1,499	28	4	1	33	300	62.24	1	32	71	104	245	24.02
$1,300–$1,399	20	9	11	40			......	15	44	59		
$1,200–$1,299	36	11	19	66			......	12	36	48		
$1,100–$1,199	8	19	31	58			......	6	17	23		
$1,000–$1,099	10	25	68	103			......	3	8	11		
$900–$999	2	14	31	47	72	14.94	......	......	1	1	3	.29
$800–$899	4	6	6	16			......	......	......	......		
$700–$799	......	3	1	4			......	......	2	2		
Below $700	......	1	4	5			......	......	......	......		
Total Teachers	206	98	178	482			156	309	555	1,020		
Median Salary	$1,400	$1,100	$1,000	$1,200			$2,500	$1,650	$1,600	$1,700		
Average Salary	$1,468	$1,098	$1,061	$1,243			$2,535	$1,709	$1,616	$1,784		
Increase in Average over last year	$41	$18	$30	$30			$43	$41	$34	$35		

P.—Principal. M.A.—Male Assistant. F.A.—Female Assistant.

SCHOOLS

SCHOOL FULL-TIME TEACHERS, 1937-38

Collegiate Institutes						Vocational Schools*						All Schools		
P.	M.A.	F.A.	Total	Group Total	Group Per-centage	P.	M.A.	F.A.	Total	Group Total	Group Per-centage	Total Teach-ers	Group Total	Group Per-centage
2	......	......	2			1	......	......	1			3		
......	......	......	......			......	......	......	......			......		
......	......	......	......			......	......	......	......			......		......
......	......	......	......		......	......	......	......	......			......		
6	......	......	6			3	......	......	3			9		
1	......	......	1	25	1.64	2	......	......	2	11	.97	3	37	.89
1	......	......	1			......	......	......	......			1		
4	......	......	4			1	......	......	1			6		
6	......	......	6			1	1	......	2			8		
2	......	......	2			2	......	......	2			4		
3	......	......	3			......	......	......	......			3		
4	......	......	4			......	......	......	......			4		
4	......	......	4			2	1	......	3			9		
5	10	......	15	159	10.45	......	5	......	5	108	9.50	22	277	6.66
3	34	15	52			1	27	7	35			90		
4	45	35	84			1	47	17	65			152		
2	39	11	52			1	32	8	41			94		
3	19	5	27			3	15	8	26			56		
3	33	7	43	214	14.07	......	30	9	39	187	16.45	84	420	10.10
6	28	8	42			1	27	2	30			75		
2	41	7	50			......	40	11	51			111		
1	24	4	29			......	46	16	62			96		
3	28	25	56			......	44	18	62			130		
3	44	32	79	278	18.28	......	37	17	54	306	26.91	148	646	15.53
......	29	15	44			......	40	13	53			107		
1	45	24	70			......	55	20	75			165		
1	31	31	63			......	16	14	30			111		
......	38	29	67			......	42	28	70			177		
......	27	35	62	376	24.72	......	41	15	56	296	26.03	152	859	20.65
......	51	39	90			......	49	32	81			215		
......	43	51	94			......	32	27	59			204		
......	55	69	124			......	24	27	51			252		
......	45	64	109			......	40	31	71			286		
......	42	50	92	432	28.40	......	32	27	59	223	19.61	261	1,258	30.24
......	38	38	76			......	17	10	27			243		
......	8	23	31			......	1	14	15			216		
......	7	15	22			......	1	2	3			162		
......	2	5	7			......	......	1	1			107		
......	......	5	5	36	2.37	......	......	......	......	6	.53	119	587	14.10
......	1	......	1			......	1	1	2			84		
......	1	......	1			......	......	......	......			115		
......	......	1	1			......	......	......	......			49		
......	......	......	......	1	.07	......	......	......	......			16	76	1.83
......	......	......	......			......	......	......	......			6		
......	......	......	......			......	......	......	......			5		
70	808	643	1,521			19	743	375	1,137			4,160		
$3,750	$2,500	$2,100	$2,367			$4,100	$2,600	$2,300	$2,544					
$3,715	$2,549	$2,247	$2,475			$4,037	$2,618	$2,380	$2,564					
$128	$25	$44	$36			$81	$84	$97	$92					

*Whole-time teachers in Vocational work. Vocational teachers who spend part-time in High School (or Collegiate Institute) and the balance of the in time the Vocational School are shown in the High School (or Collegiate Institute) section.

MODERN COMPOSITE SCHOOLS

Kemptville High & Public Schools.

Kemptville High and Public Schools

The corner-stone of this new composite school was laid by Dr. L. J. Simpson, Minister of Education, on December 21st, 1936. Built of fireproof construction throughout, at a cost of $103,000, it contains five standard classrooms in each of the Public and High Schools, and in addition has a combination gymnasium and assembly hall, with seating capacity of 600, a general science laboratory, a household science room, and a general shop. The Public and High Schools have separate entrances, separate cloak rooms, separate toilets for both schools, separate playgrounds and gardens. With non-glare lighting, heat maintained at even temperature, and well-equipped science rooms, this is one of the most modern schools in Eastern Ontario.

Lyndhurst Public and Continuation School

A modern school building, erected in 1937, at a cost of $35,000. It contains two public school classrooms, two high school classrooms, a manual training room, a home economics room, a room for men teachers, and one for the women teachers. The cost of equipment in the home economics room and general shop was $2,650. The school has accommodation for 125 pupils, and its present enrolment is about 70. Two school buses, at a total monthly cost of $125 provide transportation from the surrounding school sections. The total cost of the school was spread over twenty years, and debentures were issued for $20,000.

Pictures Courtesy "Canadian School Journal".

THE CONTINUATION SCHOOLS

TABLE 33—ATTENDANCE, GRADE ENROLMENT, ENROLMENT BY AREAS, 1937-38

SCHOOLS		ATTENDANCE					GRADE ENROLMENT					ENROLMENT BY AREAS		
	Grade	May Enrolment	Male	Female	Average Daily Attendance for the Year	Percentage Attendance Efficiency	Grade IX	Grade X	Grade XI	Grade XII	Grade XIII	Resident Pupils	County Pupils	Non-Resident Pupils
In Counties														
Acton	A	63	27	36	67	95.84	23	13	11	9	7	43	17	3
Agincourt	A	112	54	58	111	94.46	41	28	24	13	6	45	67	....
Ailsa Craig	B	52	23	29	47	93.24	21	14	10	7	.....	21	31	....
Allenford	B	29	16	13	31	95.73	11	4	12	2	.....	18	9	2
Alton	B	27	14	13	23	92.26	14	6	5	2	.....	17	10	....
Alvinston	A	57	26	31	53	92.20	15	16	15	7	4	24	32	1
Arkona	C	16	3	13	15	93.36	7	9	......	......	.....	8	6	2
Aultsville	B	22	14	8	21	94.42	9	6	5	2	.....	15	6	1
Ayr	B	43	20	23	44	95.02	18	8	11	6	.....	19	24	....
Bancroft	B	49	23	26	51	94.31	18	15	9	7	.....	40	9	....
Bath	B	39	20	19	37	92.05	12	10	15	2	.....	13	26	....
Beachburg	B	28	10	18	24	94.54	11	4	6	7	.....	17	11	....
Beaverton	A	103	40	63	95	93.51	30	22	11	24	16	50	50	3
Beeton	B	45	14	31	46	94.44	13	10	11	11	.....	16	29	....
Belmont	B	55	24	31	51	91.58	19	16	13	7	.....	32	20	3
Bethany	C	11	7	4	11	93.74	3	8	......	......	.....	5	6	....
Blackstock	A	41	19	22	39	94.49	11	9	5	7	9	11	30	....
Blyth	B	39	14	25	37	94.60	8	10	14	7	.....	21	18	....
Bobcaygeon	A	62	28	34	53	93.13	23	20	12	4	3	40	15	7
Bolton	B	34	15	19	36	96.39	16	9	3	6	.....	17	16	1
Bothwell	A	51	19	32	50	93.43	14	13	6	10	8	18	18	15
Bowesville	C	4	.....	4	3	85.33	4	......	......	......	.....	3	1	....
Brooklin	B	44	19	25	44	82.10	17	9	15	3	.....	8	35	1
Brownsville	B	42	13	29	43	94.69	15	16	3	8	.....	16	19	7
Brussels	A	72	35	37	71	97.75	9	24	20	7	12	47	25	....
Burgessville	B	24	14	10	22	96.12	7	11	5	1	.....	14	10	....
Caledon East	B	31	15	16	29	91.83	7	8	5	11	.....	13	18	....
Cannington	B	47	22	25	43	89.27	12	7	12	16	.....	23	23	1
Cardinal	A	69	29	40	71	96.08	23	15	14	12	5	55	9	5
Carp	A	77	32	45	69	85.98	20	25	18	14	.....	28	49	....
Castleton	B	27	8	19	25	98.57	5	13	5	4	.....	8	19	....
Chalk River	B	17	10	7	17	92.31	6	6	5	......	.....	......	......	17
Chatsworth	B	26	13	13	26	95.93	6	7	8	5	.....	14	12	....
Claremont	B	34	12	22	33	94.33	10	9	6	9	.....	20	14	....
Clifford	B	28	8	20	29	95.96	15	7	4	2	.....	10	7	11
Cobden	C	14	6	8	15	95.95	9	5	......	......	.....	12	2	....
Coldwater	B	40	18	22	38	85.16	17	7	7	9	.....	27	13	....
Comber	A	60	22	38	59	94.75	21	13	11	6	9	30	30	....
Consecon	B	25	8	17	25	88.66	5	6	8	6	.....	13	12	....
Cookstown	B	61	27	34	54	90.93	17	20	17	7	.....	43	18	....
Cooksville	B	38	14	24	38	95.46	17	14	3	4	.....	30	8	....
Creemore	A	62	25	37	53	95.86	20	15	11	5	11	26	32	4
Cumberland	B	24	9	15	24	96.20	9	8	1	6	.....	18	6	....
Delaware	B	24	9	15	22	91.29	6	6	4	8	.....	15	9	....
Delhi	B	55	24	31	51	92.04	25	17	7	6	.....	33	21	1
Delta	B	30	5	25	30	93.05	12	7	7	4	.....	16	14	....
Denbigh	B	17	7	10	15	94.02	8	3	3	3	.....	11	6	....
Dorchester	B	43	11	32	41	94.44	17	8	11	7	.....	23	18	2
Drayton	A	62	15	47	64	92.58	14	24	10	14	.....	13	49	....
Dresden	A	108	33	75	112	94.21	34	45	17	5	7	46	48	14
Drumbo	B	26	9	17	24	91.16	11	6	6	3	.....	16	10	....
Eganville	B	40	18	22	40	95.91	10	13	11	6	.....	32	8	....
Eganville (R.C.)	A	68	30	38	62	94.25	22	15	18	4	9	45	22	1
Elgin	A	59	21	38	52	92.47	12	14	13	18	2	19	40	....
Elmvale	B	62	19	43	60	97.31	25	17	11	9	.....	32	30	....
Embro	A	41	11	30	42	95.33	11	11	8	9	2	12	29	....
Ennismore	B	28	7	21	27	91.08	11	6	8	3	.....	10	11	7
Erin	B	52	21	31	53	92.80	22	11	9	10	.....	23	18	11
Fenelon Falls	A	76	31	45	75	96.65	20	18	18	16	4	36	40	....
Feversham	B	28	16	12	28	93.66	9	8	3	8	.....	12	16	....
Fingal	B	31	13	18	33	94.02	11	9	7	4	.....	17	14	....
Fitzroy Harbour	B	32	21	11	31	95.12	12	4	6	10	.....	22	10	....
Flinton	B	22	7	15	21	94.09	13	6	......	3	.....	8	14	....
Florence	B	49	22	27	44	93.98	20	13	6	10	.....	9	36	4
Fordwich	B	23	11	12	23	93.33	10	4	2	7	.....	6	14	3
Forester's Falls	B	26	12	14	27	92.11	8	5	7	6	.....	12	14	....
Frankford	A	52	29	23	53	94.25	11	19	9	8	5	34	7	11
Grand Valley	A	53	18	35	55	95.82	20	12	7	7	7	30	22	1
Haliburton	B	19	6	13	17	88.83	5	8	6	......	.....	19	......	....
Hallville	A	46	18	28	43	92.00	12	10	5	9	10	26	10	10
Harrow	A	104	43	61	98	94.13	39	20	16	14	15	48	56	....
Hensall	B	36	16	20	34	96.00	16	10	6	4	.....	22	13	1
Hepworth	B	33	17	16	33	91.52	10	7	5	11	.....	13	10	10
Highgate	B	28	18	10	28	96.18	11	10	5	2	.....	14	14	....
Holstein	B	28	14	14	26	84.69	9	9	7	3	.....	8	20	....

THE CONTINUATION SCHOOLS

TABLE 33—ATTENDANCE, GRADE ENROLMENT, ENROLMENT BY AREAS, 1937-38

SCHOOLS	Grade	ATTENDANCE					GRADE ENROLMENT					ENROLMENT BY AREAS		
		May Enrolment	Male	Female	Average Daily Attendance for the Year	Percentage Attendance Efficiency	Grade IX	Grade X	Grade XI	Grade XII	Grade XIII	Resident Pupils	County Pupils	Non-Resident Pupils
In Counties														
Honeywood	B	18	7	11	17	93.49	5	8	2	3	.....	10	8	....
Ilderton	B	62	24	38	56	90.62	19	23	12	8	.....	22	40	....
Inglewood	B	27	7	20	25	93.40	8	10	9	......	.....	12	15	....
Jarvis	B	51	23	28	43	93.81	11	20	5	15	.....	24	23	4
Jockvale	C	9	2	7	9	95.00	3	6	......	......	.....	3	1	5
Kars	B	28	11	17	28	93.97	12	9	3	4	.....	12	15	1
Kenmore	B	27	12	15	26	93.41	9	7	8	3	.....	11	16	....
Kinburn	B	45	17	28	49	95.60	16	13	7	9	.....	11	34	....
Kinmount	B	36	14	22	24	67.65	12	12	4	8	.....	34	......	2
Lambeth	B	36	13	23	36	97.88	11	8	11	6	.....	15	21	....
Lanark	B	59	22	37	57	95.29	17	19	12	11	.....	30	29	....
Lansdowne	B	34	17	17	35	95.32	11	11	3	9	.....	15	19	....
Laurel	C	18	10	8	17	97.15	9	4	5	......	.....	7	11	....
Lefroy	B	36	18	18	32	95.71	17	5	5	9	.....	10	26	....
Lion's Head	B	25	8	17	27	95.22	10	7	3	5	.....	15	10	....
Little Britain	B	32	21	11	31	92.33	6	18	4	4	.....	10	22	....
Lobo	B	44	23	21	38	90.40	14	14	5	11	.....	15	29	....
Long Branch	A	214	111	103	209	94.67	71	73	37	23	10	161	53	....
Lynden	B	29	13	16	28	93.55	16	3	4	6	.....	9	20	....
Lyndhurst	B	28	15	13	27	92.45	12	9	4	3	.....	10	2	16
Malakoff	B	10	5	5	9	94.48	4	3	3	......	.....	4	6	....
Mallorytown	B	56	21	35	49	92.43	14	20	11	11	.....	31	25	....
Manotick	B	55	16	39	53	91.86	12	16	11	16	.....	21	34	....
Melbourne	B	37	12	25	35	94.13	14	5	10	8	.....	12	22	3
Merlin	A	53	19	34	49	93.93	18	14	12	4	5	22	31	....
Merrickville	B	54	21	33	53	94.66	14	15	13	12	.....	29	14	11
Metcalfe	B	55	26	29	49	95.01	20	15	10	10	.....	23	32	....
Millbrook	A	74	32	42	75	93.84	20	10	17	13	14	32	42	....
Milverton	A	68	30	38	69	94.97	21	14	10	19	4	41	26	1
Minden	B	26	15	11	24	94.49	10	8	6	2	.....	26	......	....
Minesing	B	16	5	11	14	94.57	4	5	3	4	.....	11	5	....
Mount Albert	B	33	12	21	30	91.38	11	8	7	7	.....	10	16	7
Mount Brydges	B	56	15	41	54	93.15	21	13	16	6	.....	22	34	....
Mount Elgin	B	42	17	25	40	94.08	13	15	5	9	.....	17	25	....
Mount Pleasant	B	35	14	21	33	91.47	12	10	6	7	.....	27	6	2
Navan	B	32	15	17	27	91.39	10	8	8	6	.....	24	8	....
New Dundee	B	27	10	17	27	96.48	6	11	5	5	.....	11	12	4
New Hamburg	B	71	34	37	71	95.12	30	17	15	9	.....	61	8	2
North Augusta	B	28	8	20	27	91.01	9	12	2	5	.....	4	22	2
North Gower	B	46	19	27	45	94.50	18	12	9	7	.....	22	24	....
Odessa	B	31	14	17	30	89.54	10	9	8	4	.....	8	17	6
Oil Springs	B	42	11	31	36	92.62	19	16	5	2	.....	25	16	1
Orono	A	65	28	37	60	94.03	17	12	17	10	9	32	33	....
Otterville	B	26	10	16	26	89.42	9	10	2	5	.....	13	13	....
Paincourt	B	38	14	24	37	97.77	12	3	17	6	.....	33	4	1
Paisley	A	66	24	42	63	94.83	14	17	16	6	13	40	26	....
Pakenham	B	35	13	22	29	93.92	10	13	7	5	.....	25	7	3
Palmerston	A	87	32	55	85	98.48	35	22	12	9	9	60	13	14
Pelee Is.	B	13	8	5	11	94.28	4	6	1	2	.....	13	......	....
Pelham	A	110	44	66	102	94.33	33	38	20	7	12	20	75	15
Pickering	B	54	34	20	50	96.64	18	11	19	6	.....	25	29	....
Plattsville	A	63	29	34	61	95.06	22	11	9	11	10	13	46	4
Port Burwell	B	37	8	29	35	92.43	10	12	11	4	.....	26	7	4
Preston	A	237	101	136	243	96.63	104	59	42	24	8	205	32	....
Princeton	B	37	17	20	38	91.20	17	10	6	4	.....	20	10	7
Richmond	A	79	35	44	74	92.70	20	30	11	12	6	25	54	....
Ripley	A	44	20	24	44	97.27	13	8	8	8	7	18	26	....
Rockwood	B	53	20	33	54	95.27	21	15	7	10	.....	27	23	3
Rodney	B	60	26	34	58	92.42	19	15	12	14	.....	39	20	1
Russell	B	75	39	36	59	89.18	16	18	12	20	9	56	11	8
St. George	A	54	22	32	56	94.90	15	15	11	4	9	38	7	9
Schomberg	B	51	25	26	51	93.97	18	19	7	7	.....	17	18	16
Scotland	B	23	7	16	24	89.34	8	8	6	1	.....	12	5	6
Seeley's Bay	B	32	18	14	32	94.49	12	4	11	5	.....	18	10	4
Selkirk	B	32	14	18	29	93.71	11	16	4	1	.....	12	20	....
Severn Bridge	B	30	9	21	30	91.09	8	9	10	3	.....	4	10	16
Singhampton	B	27	9	18	23	91.93	11	5	4	7	.....	14	4	9
Southampton	B	45	17	28	43	94.96	15	9	8	13	.....	42	3	....
South Mountain	B	56	28	28	54	95.22	19	17	14	6	.....	22	30	4
Sparta	B	21	7	14	21	95.16	9	6	3	3	.....	11	10	....
Spencerville	A	50	28	22	44	89.29	17	13	8	12	.....	25	25	....
Springfield	B	44	18	26	43	91.51	20	7	4	13	.....	18	26	....
Stayner	A	59	22	37	57	94.78	16	13	14	14	2	32	27	....
Stella	B	14	3	11	13	86.47	6	3	1	4	.....	4	10	....
Stevensville	A	37	18	19	37	94.54	12	10	7	5	3	25	12	....

THE CONTINUATION SCHOOLS

TABLE 33—ATTENDANCE, GRADE ENROLMENT, ENROLMENT BY AREAS, 1937-38

SCHOOLS	Grade	ATTENDANCE					GRADE ENROLMENT					ENROLMENT BY AREAS		
		May Enrolment	Male	Female	Average Daily Attendance for the Year	Percentage Attendance Efficiency	Grade IX	Grade X	Grade XI	Grade XII	Grade XIII	Resident Pupils	County Pupils	Non-Resident Pupils
In Counties														
Stouffville	A	97	46	51	93	94.83	36	18	22	9	12	40	50	7
Sunderland	B	55	19	36	54	80.01	24	11	10	10	.....	25	30	....
Sutton West	A	89	35	54	90	93.48	34	18	11	21	5	57	31	1
Tamworth	A	76	36	40	69	91.68	23	18	12	15	8	28	38	10
Tara	B	43	18	25	40	94.77	13	11	9	10	.....	16	19	8
Tavistock	B	57	28	29	51	95.80	22	11	13	11	.....	34	10	13
Teeswater	A	61	33	28	61	93.33	21	14	9	6	11	38	23	....
Thamesford	B	61	24	37	56	94.94	18	19	16	8	.....	29	30	2
Thamesville	A	62	21	41	64	95.77	29	17	9	7	.....	33	29	....
Thedford	B	18	5	13	18	90.46	6	7	2	3	.....	6	12	....
Thornbury	A	109	45	64	105	94.73	37	17	26	16	13	45	64	....
Thorndale	B	37	23	14	35	94.54	13	13	8	3	.....	17	19	1
Thornton	B	35	13	22	28	78.80	9	9	9	8	.....	21	14	....
Tiverton	B	16	4	12	18	95.48	6	1	5	4	.....	8	8	....
Tottenham	B	62	21	41	51	93.15	14	18	12	18	.....	24	26	12
Wales	B	36	17	19	34	92.10	13	5	11	7	.....	5	31	....
Warkworth	A	43	13	30	44	96.05	16	11	5	6	5	21	22	....
Wellesley	B	14	6	8	13	94.11	9	2	1	2	.....	12	2	....
Wellington	A	78	30	48	77	92.14	23	19	13	15	8	62	16	....
West Lorne	B	43	11	32	39	91.13	16	7	9	11	.....	32	11	....
Westmeath	B	23	7	16	20	85.97	11	7	2	3	.....	23	......	....
Westport	B	46	16	30	44	94.14	16	9	10	11	.....	33	8	5
Westport (R.C.)	B	40	12	28	37	96.10	14	17	4	5	.....	20	8	12
Wheatley	A	71	35	36	72	93.68	25	22	14	9	1	38	24	9
Wilberforce	C	12	8	4	10	92.57	3	4	3	2	.....	12	......	....
Wolfe Is.	C	15	7	8	15	94.03	9	6	......	......	.....	15	......	....
Woodville	B	52	25	27	52	97.37	12	19	8	13	.....	23	28	1
Wooler	B	60	28	32	57	94.04	23	15	13	9	.....	13	47	....
Wroxeter	B	29	10	19	29	95.91	10	7	5	7	.....	10	19	....
Wyoming	B	28	10	18	27	93.30	8	9	6	5	.....	16	12	....
Totals	...	8,272	3,453	4,819	7,851	93.52	2,787	2,230	1,587	1,324	344	4,289	3,551	432
In Districts														
Blind River	A	67	32	35	66	93.25	20	19	14	9	5	63	4	....
Bruce Mines	B	38	18	20	37	96.05	17	9	5	7	.....	24	14	....
Burk's Falls	A	57	25	32	55	96.66	24	8	12	7	6	37	19	1
Coniston	B	57	24	33	55	94.47	22	15	13	7	.....	55	2	....
Emo	B	24	11	13	23	89.36	3	11	6	4	.....	17	7	....
Espanola	A	67	25	42	67	93.69	27	21	5	10	4	56	11	....
Fraserdale	C	9	2	7	9	97.72	4	3	1	1	.....	9	......	....
Hornepayne	B	35	11	24	31	91.82	17	8	10	......	.....	33	2	....
Little Crescent	B	33	12	21	32	91.76	14	7	5	7	.....	31	2	....
MacTier	B	45	15	30	35	93.35	10	12	10	3	.....	45	......	....
Manitowaning	B	13	3	10	11	87.58	4	6	1	2	.....	8	5	....
Massey	B	27	13	14	26	91.67	8	5	8	6	.....	21	6	....
Milford Bay	B	18	11	7	15	91.22	9	2	3	4	.....	18	......	....
Mindemoya	B	25	9	16	24	93.11	10	5	3	7	.....	19	6	....
Nipigon	B	24	16	8	20	95.47	11	9	2	2	.....	23	1	....
Port Carling	B	30	16	14	25	92.95	14	11	3	2	.....	19	11	....
Powassan	B	61	20	41	62	86.60	17	17	14	13	.....	33	28	....
Red Lake	C	8	6	2	8	94.42	3	1	3	1	.....	8	......	....
Richard's Landing	B	25	16	9	19	91.02	9	3	6	7	.....	25	......	....
Schreiber	A	74	38	36	76	93.00	22	18	22	8	4	73	......	1
Sioux Lookout	A	106	49	57	108	89.71	33	36	13	20	4	104	2	....
Smooth Rock Falls	B	32	21	11	31	98.69	15	8	4	5	.....	26	6	....
South River	B	36	13	23	37	97.38	14	7	9	6	.....	33	3	....
Sprucedale	C	10	5	5	9	82.95	4	2	4	......	.....	7	3	....
Sundridge	B	39	17	22	35	88.90	9	11	9	10	.....	33	6	....
White River	C	19	12	7	18	97.90	8	6	5	......	.....	19	......	....
Totals	...	979	440	539	923	92.61	358	260	190	148	23	839	138	2
Grand Totals	...	9,251	3,893	5,358	8,774	93.42	3,145	2,490	1,777	1,472	367	5,128	3,689	434
Increases for year	...	316	143	173	184	1.48	202	81	68	......	.....	156	135	25
Decreases for year	...	.....	.....	.....	......	......	......	......	......	21	14	......	......	....
Percentages	...	.....	42.08	57.92	94.84	......	34.00	26.92	19.21	15.91	3.96	55.43	39.88	4.69

THE CONTINUATION SCHOOLS

TABLE 34—AGE-GRADE DISTRIBUTION, MAY, 1938

		11 years	12 years	13 years	14 years	15 years	16 years	17 years	18 years	19 years	20 years	21 years and over	Totals	Grade Totals
GRADE IX	Boys	2	51	277	482	391	147	51	5	3	....	....	1,409	3,145
	Girls	5	79	431	681	393	115	25	7	....	....	....	1,736	
GRADE X	Boys	....	4	36	208	412	246	106	30	4	....	....	1,046	2,490
	Girls	....	2	57	355	531	336	123	32	8	....	....	1,444	
GRADE XI	Boys	....	....	3	39	173	267	153	58	12	3	3	711	1,777
	Girls	....	....	4	70	300	403	209	55	12	7	6	1,066	
GRADE XII	Boys	....	....	....	3	29	142	218	135	44	12	5	588	1,472
	Girls	....	....	....	3	63	237	327	161	68	22	3	884	
GRADE XIII	Boys	....	....	....	....	1	5	45	40	25	17	6	139	367
	Girls	....	....	....	....	3	22	65	73	45	14	6	228	
TOTALS BY SEXES	Boys	2	55	316	732	1,006	807	573	268	88	32	14	3,893	
	Girls	5	81	492	1,109	1,290	1,113	749	328	133	43	15	5,358	
GRAND TOTALS	......	7	136	808	1,841	2,296	1,920	1,322	596	221	75	29	9,251	

THE CONTINUATION SCHOOLS

TABLE 35—FINANCIAL STATISTICS, 1937

Schools	Average Daily Attendance (A)	Major Sources of Receipts				Disbursements		Cost per Pupil-Day (in cents)			Debenture (D) Indebtedness
		Legislative Grants	County Grant	Township Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	
In Counties		$	$	$	$	$	$				$
Acton	72	919	2,907	....	2,875	4,926	2,247	35.5	16.2	51.7	17,349
Agincourt	106	1,005	....	....	9,332	8,147	2,198	40.8	11.0	51.8	58,512
Ailsa Craig	49	1,099	650	....	1,997	3,661	697	42.3	8.0	50.3	8,915
Allenford	32	833	2,084	521	655	2,744	655	50.1	12.0	62.1	7,211
Alton	22	870	691	....	567	2,965	567	65.7	12.6	78.3	6,068
Alvinston	51	912	2,939	....	1,321	4,279	914	45.4	9.7	55.1	11,749
Arkona	17	214	353	....	570	1,255	....	36.9	....	36.9	....
Aultsville	19	852	1,053	680	473	2,889	....	82.6	....	82.6	....
Ayr	92	1,034	1,247	....	1,555	3,837	....	44.7	....	44.7	....
Bath	38	906	1,190	....	500	2,976	....	41.2	....	41.2	....
Beachburg	22	769	....	800	1,955	2,923	1,005	63.9	22.0	85.9	5,016
Beaverton	94	970	1,452	....	3,728	5,730	430	33.0	2.5	35.5	805
Beeton	45	893	757	....	2,194	3,402	654	41.4	8.0	49.4	6,350
Belmont	40	880	....	....	2,200	3,225	....	34.1	....	34.1	....
Bethany	12	185	1,470	400	....	1,319	....	58.8	....	58.8	....
Blackstock	43	904	3,441	....	1,120	4,729	669	58.9	8.3	67.2	3,840
Blyth	32	881	1,084	....	1,511	2,931	876	48.6	14.5	63.1	831
Bobcaygeon	46	869	1,516	....	3,022	4,547	1,203	52.8	14.0	66.8	11,306
Bolton	26	888	1,425	428	1,200	3,173	1,088	69.0	23.7	92.7	5,434
Bothwell	47	950	1,156	....	1,763	4,533	113	53.7	1.3	55.0	....
Bowesville	4	123	123	480	427	1,114	....	125.4	....	125.4	....
Brooklin	44	937	1,303	800	1,376	3,366	1,376	41.3	16.9	58.2	22,018
Brownsville	39	942	....	400	708	3,579	....	50.1	....	50.1	....
Brussels	76	906	1,657	....	150	4,934	....	36.0	....	36.0	....
Burgessville	23	811	2,110	....	1,882	3,193	1,605	71.1	35.8	106.9	12,393
Caledon East	33	856	1,273	....	677	2,913	677	48.9	11.4	60.3	2,375
Cannington	46	896	77	....	545	3,322	637	27.3	5.2	32.5	2,795
Cardinal	66	874	798	....	503	4,673	2,180	38.3	17.9	56.2	5,562
Carp	78	896	1,746	1,120	944	4,773	944	31.1	6.1	37.2	9,544
Castleton	24	882	1,974	700	991	2,878	1,864	63.6	41.3	104.9	19,010
Chalk River	90	730	....	380	1,250	2,403	....	42.3	....	42.3	....
Chatsworth	24	755	1,347	....	1,095	3,402	....	71.1	....	71.1	....
Claremont	31	784	....	....	1,951	2,655	1,651	43.7	28.4	72.1	16,290
Clifford	27	753	691	633	784	2,730	784	54.1	15.5	69.6	3,265
Cobden	18	361	727	....	699	1,824	....	54.2	....	54.2	....
Coldwater	37	898	689	550	....	3,341	....	45.6	....	45.6	....

THE CONTINUATION SCHOOLS

TABLE 35—FINANCIAL STATISTICS, 1937

Schools	Average Daily Attendance (A)	Major Sources of Receipts				Disbursements		Cost per Pupil-Day (in cents)			Debenture (H) Indebtedness
		Legislative Grants	County Grant	Township Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	
In Counties		$	$	$	$	$	$				$
Comber	67	917	2,364	1,050	1,308	5,127	1,308	38.9	9.9	48.8	10,462
Consecon	27	635	....	480	c878	1,994	....	39.0	....	39.0	....
Cookstown	46	808	....	....	2,166	3,016	....	35.0	....	35.0	....
Cooksville	38	905	1,295	800	1,478	5,040	980	72.4	14.1	86.5	4,305
Creemore	53	919	2,230	....	1,840	4,516	712	47.8	7.5	55.3	6,669
Cumberland	22	593	....	720	149	2,040	149	48.4	3.5	51.9	2,555
Delaware	22	750	725	800	....	2,651	....	107.1	....	107.1	....
Delhi	48	866	1,425	....	2,549	3,425	2,549	37.4	27.8	65.2	....
Delta	29	790	972	....	1,406	3,354	....	56.7	....	56.7	....
Denbigh	16	575	363	315	498	1,809	253	61.2	8.5	69.7	8,600
Dorchester	36	768	....	400	1,668	2,750	1,674	39.0	23.7	62.7	10,606
Drayton	60	1,643	2,963	....	1,423	6,232	....	55.8	....	55.8	....
Dresden	123	898	3,540	....	2,682	6,789	585	31.1	2.6	33.7	5,487
Drumbo	26	1,013	809	....	2,000	3,982	....	80.0	....	80.0	....
Eganville	36	908	688	....	783	3,982	....	56.4	....	56.4	....
Eganville R.C.	58	760	516	....	616	3,385	....	31.2	....	31.2	....
Elgin	58	916	3,201	....	1,445	4,744	1,445	45.7	13.9	59.6	6,257
Elmvale	50	914	1,347	800	1,020	4,078	....	44.6	....	44.6	....
Embro	46	995	....	....	4,768	4,761	1,043	55.6	12.1	67.7	10,325
Ennismore	28	697	1,096	977	....	2,420	....	45.8	....	45.8	....
Erin	43	916	1,514	....	3,756	3,788	1,565	49.3	20.3	69.6	12,340
Fenelon Falls	71	920	4,186	....	4,634	6,702	3,119	49.8	23.2	73.0	29,972
Feversham	25	747	1,503	800	....	2,677	548	57.6	11.8	69.4	3,288
Fingal	29	752	934	....	....	2,695	....	51.4	....	51.4	....
Fitzroy Harbour	24	843	113	750	....	2,815	....	62.3	....	62.3	....
Flinton	18	539	675	127	....	1,851	....	55.3	....	55.3	....
Florence	44	2,531	1,601	....	....	3,358	....	45.1	....	45.1	22,000
Fordwich	20	867	3,565	780	....	2,942	722	82.1	20.1	102.2	4,179
Forester's Falls	27	584	267	480	....	2,259	....	40.4	....	40.4	....
Frankford	62	957	1,767	....	700	4,599	2,064	38.8	17.4	56.2	in P.S.
Grand Valley	51	904	1,747	....	1,954	4,909	....	51.5	....	51.5	....
Haliburton	18	1,605	506	975	....	2,122	772	60.8	22.1	82.9	3,539
Hallville	44	1,621	556	960	3,197	5,883	1,461	73.1	18.2	91.3	6,088
Harrow	80	824	6,419	....	4,105	6,402	1,605	40.6	10.2	50.8	14,198
Hensall	33	878	1,735	....	1,728	3,325	1,292	57.8	22.4	80.2	4,300
Hepworth	33	786	2,642	....	305	3,266	305	51.9	4.8	56.7	9,437
Highgate	33	842	1,610	....	963	3,117	963	47.7	14.7	62.4	6,227

THE CONTINUATION SCHOOLS

TABLE 35—FINANCIAL STATISTICS, 1937

Schools	Average Daily Attendance (A)	Major Sources of Receipts				Disbursements		Cost per Pupil-Day (in cents)			Debenture (H) Indebtedness
		Legislative Grants	County Grant	Township Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	
In Counties		$	$	$	$	$	$				$
Holstein	21	868	1,311	800	585	2,979	585	74.1	14.6	88.7	10,538
Honeywood	20	781	1,348	......	1,224	2,517	841	69.6	23.4	93.0	7,319
Ilderton	52	928	......	......	798	2,759	......	27.6	......	27.6	......
Inglewood	28	643	1,652	......	832	2,772	932	50.5	17.0	67.5	7,024
Jarvis	55	799	1,413	......	911	3,373	1,618	40.5	19.4	59.9	22,168
Jockvale	12	414	136	450	352	1,370	......	56.7	......	56.7	......
Kars	31	815	......	......	......	2,713	......	47.2	......	47.2	......
Kenmore	25	878	598	......	551	3,531	......	74.9	......	74.9	......
Kinburn	45	894	1,752	900	......	3,985	225	47.0	2.7	49.7	8,686
Kinmount	25	511	73	400	128	1,564	......	33.5	......	33.5	......
Lambeth	39	798	......	......	1,264	3,822	......	54.8	......	54.8	......
Lanark	56	896	1,088	......	275	3,102	......	28.9	......	28.9	......
Lansdowne	35	841	1,223	680	38	3,521	......	52.8	......	52.8	......
Laurel	13	98	737	480	41	1,279	......	49.7	......	49.7	......
Lefroy	23	672	846	1,000	401	2,928	401	62.9	8.6	71.5	2,852
Lion's Head	28	757	1,892	......	737	2,533	682	47.8	12.9	60.7	7,080
Little Britain	35	898	2,013	800	1,407	3,463	1,805	54.4	28.4	82.8	19,860
Lobo	34	968	1,432	......	802	4,159	......	56.4	......	56.4	......
Long Branch	226	915	9,775	......	8,006	14,245	4,472	38.8	12.2	51.0	47,894
Lynden	25	882	1,718	833	963	3,075	963	62.7	20.0	82.7	15,412
Lyndhurst	25	906	1,438	680	......	3,423	......	73.6	......	73.6	......
Malakoff	8	519	......	540	......	1,834	......	91.0	......	91.0	......
Mallorytown	53	915	2,292	......	1,308	3,936	1,308	38.4	12.7	51.1	3,923
Manotick	53	849	1,338	......	1,038	3,505	830	34.8	8.2	43.0	1,812
Melbourne	34	1,080	824	......	699	3,573	......	56.9	......	56.9	......
Merlin	54	874	800	......	704	4,398	......	43.6	......	43.6	......
Merrickville	55	1,014	3,322	......	533	3,789	533	37.4	5.3	42.7	6,230
Metcalfe	48	855	......	......	1,509	2,752	......	30.4	......	30.4	......
Millbrook	74	918	4,741	......	1,464	4,966	2,581	35.6	18.5	54.1	23,686
Milverton	73	922	......	......	4,953	5,923	2,236	44.9	17.0	61.9	24,601
Minden	23	927	3,422	100	769	1,785	......	42.1	......	42.1	......
Minesing	14	551	......	720	580	1,852	......	65.7	......	65.7	......
Mount Albert	32	1,081	3,609	1,000	331	4,181	1,629	67.4	26.2	93.6	20,411
Mount Brydges	53	800	642	......	501	3,237	......	30.4	......	30.4	......
Mount Elgin	42	812	1,152	......	2,874	3,470	1,616	45.7	21.2	66.9	11,182
Mount Pleasant	29	962	2,848	......	1,828	3,893	1,828	67.0	31.4	98.4	20,103
Navan	25	831	......	800	1,536	2,719	726	19.1	5.1	24.2	4,056

THE CONTINUATION SCHOOLS

TABLE 35—FINANCIAL STATISTICS, 1937

Schools	Average Daily Attendance (A)	Major Sources of Receipts				Disbursements		Cost per Pupil-Day (in cents)			Debenture (D) Indebtedness
		Legislative Grants	County Grant	Township Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	
In Counties		$	$	$	$	$	$				$
New Dundee	30	944	546	400	1,514	2,994	1,003	51.6	17.8	69.4	11,033
New Hamburg	65	942			3,019	3,790	434	31.0	3.5	34.5	1,300
North Augusta	27	714	1,319	680	377	2,925	265	63.7	5.8	69.5	1,200
North Gower	40	783			500	2,786		37.1		37.1	
Odessa	30	905	1,194		539	3,376		58.8		58.8	
Oil Springs	33	835	702	247	770	2,705		44.5		44.5	
Orono	58	991	3,461	1,120	192	5,761	1,138	52.6	10.4	63.0	11,094
Otterville	25	813	2,327		1,339	3,159	1,339	65.6	23.6	89.2	13,389
Paisley	62	917	2,749		1,872	5,040		42.6		42.6	
PaincourtE	38				2,993	1,502		55.7		55.7	
Pakenham	37	866	930	800		2,923		40.8		40.8	
Palmerston	77	900	147		3,593	5,235		37.4		37.4	
Pelee Island	10	1,721		640	858	2,207	408	110.0	20.4	130.4	747
Pelham	106	1,181	13,952		3,954	14,362	3,852	68.8	18.5	87.3	27,377
Pickering	47	912	1,839	800	1,849	3,377	1,502	36.1	16.1	52.2	10,470
Plattsville	51	914			1,000	4,706		49.4		49.4	
Port Burwell	31	917	879	800	2,013	3,760	1,305	66.5	23.1	89.6	15,655
Preston	221	902	862		18,367	14,363	6,473	35.6	16.1	51.7	47,538
Princeton	35	1,081	1,247			3,272		50.8		50.8	
Richmond	71	879	2,476		1,298	5,273	1,278	37.8	9.2	47.0	13,699
Ripley	41	876	2,661		1,130	4,606	430	59.7	5.6	65.3	2,147
Rockwood	49	909	725	800	1,215	3,305	1,548	35.3	16.5	51.8	14,114
Rodney	54	912	656	445	1,000	3,722		37.4		37.4	
Russell	67	893	1,395	492	1,407	4,627		36.4		36.4	
St. George	56	1,122	2,505		5,355	5,942	1,626	53.4	14.6	68.0	19,011
Schomberg	40	838	2,548		1,249	3,424	1,210	43.8	15.4	59.2	15,079
Scotland	28	889	2,253			2,950	1,157	53.7	21.0	74.7	5,644
Seeley's Bay	28	862	1,366	637	963	3,218	963	57.4	17.1	74.5	14,443
Selkirk	38	833	1,594	800	500	2,859	500	41.3	7.2	48.5	
Severn Bridge	26	1,340		800	435	2,973	435	59.6	8.7	68.3	4,891
Singhampton	20	576	511	640	796	1,995	436	55.3	12.1	67.4	5,231
Southampton	42	925	2,274		961	3,795	226	46.2	2.7	48.9	1,176
South Mountain	48	909	564	680	285	4,244	285	46.0	3.1	49.1	569
Sparta	22	968	1,921	400		3,645		90.0		90.0	
Spencerville	50	882	1,993	960	600	5,128		52.3		52.3	
Springfield	37	831	1,520		2,499	2,907	1,799	40.8	25.2	66.0	17,992
Stayner	68	914	2,591		2,305	5,381	2,305	44.0	18.8	62.8	21,810

THE CONTINUATION SCHOOLS

TABLE 35—FINANCIAL STATISTICS, 1937

Schools	Average Daily Attendance (A)	Major Sources of Receipts				Disbursements		Cost per Pupil-Day (in cents)			Debenture (H) Indebtedness
		Legislative Grants	County Grant	Township Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	
In Counties		$	$	$	$	$	$				$
Stella	14	479	...	...	1,213	1,718	...	62.8	...	62.8	...
Stevensville	37	909	3,179	...	1,920	4,982	2,006	71.0	28.5	99.5	16,663
Stouffville	93	912	4,822	...	1,799	5,702	1,799	37.6	11.9	49.5	10,216
Sunderland	42	900	318	800	100	3,025	...	36.4	...	36.4	...
Sutton West	77	923	5,239	...	3,600	5,707	3,234	37.4	21.2	58.6	41,636
Tamworth	51	1,002	2,706	800	1,500	6,063	...	63.1	...	63.1	...
Tara	34	832	2,080	...	...	3,132	...	49.1	...	49.1	...
Tavistock	51	909	735	...	2,800	4,662	...	46.1	...	46.1	...
Teeswater	56	1,128	4,781	...	1,687	6,470	1,308	61.1	12.3	73.4	5,816
Thamesford	56	899	2,026	...	1,311	3,416	1,311	33.0	12.7	45.7	11,802
Thamesville	92	790	2,105	...	1,961	4,579	1,046	33.2	7.6	40.8	6,664
Thedford	20	753	1,963	...	1,703	2,906	1,204	74.1	30.6	104.7	10,094
Thornbury	98	916	3,118	...	2,984	7,023	...	37.5	...	37.5	...
Thorndale	30	811	835	800	562	2,812	...	51.6	...	51.6	...
Thornton	29	882	376	750	651	2,888	651	60.2	13.6	73.8	14,311
Tiverton	21	622	1,554	...	...	2,716	...	71.4	...	71.4	...
Tottenham	61	837	639	...	376	2,870	...	28.7	...	28.7	...
Wales	34	860	1,100	680	...	3,105	398	48.4	6.2	54.6	1,194
Warkworth	49	901	2,413	...	176	4,855	...	52.3	...	52.3	...
Wellesley	14	603	30	...	727	2,232	...	87.2	...	87.2	...
Wellington	72	924	787	...	7,201	6,168	2,752	44.1	19.6	63.7	44,032
West Lorne	33	869	...	1,000	795	2,916	...	44.6	...	44.6	...
Westmeath	17	632	119	768	300	2,250	...	65.2	...	65.2	...
Westport	43	841	736	...	1,485	2,992	...	38.7	...	38.7	...
Westport R.C.	35	880	823	...	748	3,495	...	53.5	...	53.5	...
Wheatley	92	926	2,705	...	4,204	6,391	2,616	49.2	20.1	69.3	9,063
Wilberforce	11	923	82	10	175	1,315	...	64.3	...	64.3	...
Wolfe Island	12	149	331	...	320	1,032	...	49.8	...	49.8	...
Woodville	47	982	2,008	...	1,910	3,550	1,569	38.0	16.8	54.8	23,530
Wooler	47	763	1,255	...	1,272	4,318	...	49.3	...	49.3	...
Wroxeter	28	737	1,136	800	...	2,721	...	55.4	...	55.4	...
Wyoming	33	643	1,895	...	700	2,491	D	39.7	D	...	1,943
Totals and Averages	7,869	153,428	263,872	47,838	253,408	671,761	127,768	46.3	8.8	55.1	1,154,882

THE CONTINUATION SCHOOLS

TABLE 35—FINANCIAL STATISTICS, 1937

Schools	Average Daily Attendance (A)	Major Sources of Receipts				Disbursements		Cost per Pupil-Day (in cents)			Debenture (H) Indebtedness
		Legislative Grants	County Grant	Township Grade	School District Levy (B)	Current	Capital	Current	Capital	Total	
In Districts		$	$	$	$	$	$				$
Blind River	92	1,847	....	....	2,617	5,296	D	45.6	D	....	32,287
Bruce Mines	36	1,651	....	....	2,763	3,052	605	44.2	8.9	53.1	4,118
Burk's Falls	50	1,913	....	....	2,666	4,496	....	48.8	....	48.8	....
Coniston	52	1,822	....	....	3,850	5,436	....	54.5	....	54.5	....
Emo	30	1,749	....	350	1,410	3,080	260	54.0	4.6	58.6	781
Espanola	68	1,822	....	....	3,931	4,087	F1,200	30.6	9.0	39.6	....
Fraserdale	8	320	....	....	285	1,893	....	117.1	....	117.1	....
Hornepayne	25	1,768	....	....	1,861	3,630	....	75.0	....	75.0	....
Little Current	29	1,703	....	....	2,200	4,099	....	74.3	....	74.3	....
MacTier	33	1,540	....	....	2,067	3,998	610	63.2	9.6	72.8	6,102
Manitowaning	9	1,250	....	200	500	2,034	....	114.3	....	114.3	....
Massey	22	1,471	....	....	1,200	2,553	....	59.5	....	59.5	....
Milford Bay	17	1,415	....	231	1,601	2,197	464	77.8	16.4	94.2	....
Mindemoya	25	1,710	....	250	1,893	3,308	793	62.0	16.2	78.2	5,424
Nipigon	18	1,273	....	....	1,822	2,828	240	79.4	6.5	85.9	....
Port Carling	20	1,311	....	....	1,800	2,612	....	76.7	....	76.7	....
Powassan	64	2,678	....	....	2,131	3,623	1,308	31.1	11.2	42.3	15,693
Richard's Landing	23	1,085	....	400	293	1,834	....	42.5	....	42.5	....
Red Lake	7	320	....	....	G571	1,695	....	122.6	....	122.6	....
Schreiber	84	1,822	....	....	5,399	6,780	2,752	40.8	16.6	57.4	26,797
Sioux Lookout	112	2,212	....	....	4,100	2,604	....	123.8	....	123.8	....
Smooth Rock Falls	30	1,823	....	....	5,494	7,170	....	119.1	....	119.1	....
South River	37	1,625	....	....	3,066	2,659	1,890	39.3	27.8	67.1	2,500
Sprucedale	13	957	....	....	640	1,571	....	63.9	....	63.9	....
Sundridge	36	1,859	....	....	1,390	3,186	....	50.4	....	50.4	....
Totals and Averages	940	38,946	....	1,431	55,550	85,721	10,122	49.7	5.9	55.6	93,702
Grand Totals and Averages	8,809	192,374	263,872	49,269	308,958	757,482	137,890	46.7	8.5	55.2	1,248,584

A Average Daily Attendance for the calendar year. B Includes levy for capital charges. C Transferred from Public School funds. D In default.
E Opened September 1. F Rent. G Community donations. H In some cases this may include the Public School.

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 36—ATTENDANCE, GRADE ENROLMENT, ENROLMENT BY AREAS, 1937-38

COLLEGIATE INSTITUTES	ATTENDANCE					GRADE ENROLMENT					ENROLMENT BY AREAS		
	May Enrolment	Male	Female	Average Daily Attendance for the Year	Attendance Efficiency Percentage	Grade IX	Grade X	Grade XI	Grade XII	Grade XIII	Resident Pupils	County Pupils	Non-Resident Pupils
In Counties													
Barrie	529	237	292	459	95.23	194	109	90	74	62	355	172	2
Belleville	681	329	352	596	94.24	319	123	103	69	67	489	151	41
Brantford	820	396	424	776	93.98	243	223	154	125	75	663	132	25
Brockville	441	205	236	433	94.60	152	93	72	75	49	364	77	....
Chatham	500	245	255	462	94.87	141	120	107	99	33	352	148	....
Clinton	156	67	89	155	96.39	44	34	28	25	25	66	90	....
Cobourg	323	149	174	304	93.91	87	67	94	45	30	237	85	1
Collingwood	277	120	157	273	94.98	75	80	61	36	25	226	37	14
Cornwall	497	288	209	444	96.31	171	134	92	62	38	309	180	8
Galt	322	161	161	317	94.51	102	68	62	69	21	232	65	25
Goderich	248	101	147	253	95.59	81	74	50	22	21	170	78	....
Guelph	631	326	305	577	94.91	190	154	116	88	83	480	135	16
Hamilton—Central	946	487	459	901	95.40	291	201	206	136	112	932	13	1
Delta	826	413	413	802	95.97	263	206	134	107	116	813	13	....
Westdale	757	352	405	727	94.14	203	166	169	128	91	723	34	....
Ingersoll	248	82	166	246	88.73	72	94	34	27	21	208	38	2
Kingston	986	525	461	830	94.61	378	183	187	151	87	810	169	7
Kitchener-Waterloo	546	288	258	530	96.12	......	194	133	147	72	505	39	2
Lindsay	484	213	271	472	95.00	144	110	97	49	84	336	115	33
London—Central	1,011	470	541	887	96.17	245	212	232	181	141	849	162	....
Sir A. Beck	660	317	343	654	96.73	196	146	158	93	67	553	101	6
South	635	311	324	623	96.09	160	152	148	99	76	536	99	....
Morrisburg	143	58	85	134	94.00	42	40	20	18	23	69	73	1
Napanee	224	93	131	243	95.23	78	40	39	29	38	113	109	2
Niagara Falls	455	220	235	420	95.72	160	116	92	57	30	448	5	2
Orillia	463	192	271	458	93.90	169	99	96	61	38	375	50	38
Oshawa	584	278	306	596	95.99	224	127	131	66	36	505	66	13
Ottawa—Glebe	1,616	835	781	1,575	95.95	446	345	358	285	182	1,605	7	4
Lisgar	1,015	524	491	975	94.77	230	252	243	167	123	903	103	9
Owen Sound	403	207	196	305	95.42	121	91	82	62	47	319	75	9
Pembroke	221	114	107	115	94.24	61	47	60	25	28	156	63	2
Perth	269	135	134	260	95.94	63	74	57	42	33	157	104	8
Peterborough	536	253	283	505	95.55	152	114	122	86	62	413	101	22
Picton	173	79	94	116	95.07	76	28	22	20	27	95	78	....
Renfrew	284	131	153	264	93.66	79	77	51	40	37	163	121	....
St. Catharines	847	400	447	824	95.01	362	162	125	120	78	734	113	....
St. Mary's	309	137	172	307	92.38	103	61	74	44	27	183	79	47
St. Thomas	651	306	345	628	94.64	165	149	143	116	78	494	151	6
Sarnia	672	315	357	609	94.64	193	190	127	102	60	523	146	3
Scarborough	433	222	211	419	95.21	237	77	47	46	26	415	9	9
Seaforth	155	69	86	151	92.31	71	28	23	13	20	73	77	5
Smith's Falls	415	184	231	414	95.47	128	101	87	55	44	317	97	1
Stamford	373	141	232	359	96.41	137	70	49	58	59	228	80	65
Stratford	777	416	361	785	97.48	260	196	135	103	83	703	65	9
Strathroy	170	68	102	170	95.29	52	47	24	27	20	97	70	3
Toronto—Bloor	603	378	225	574	95.53	162	148	134	99	60	603	......	....
Harbord	1,172	743	429	1,152	96.37	337	275	230	193	137	1,170	......	2
Humberside	1,341	669	672	1,266	96.33	333	308	285	235	180	1,332	9	....
Jarvis	920	488	432	818	95.91	231	209	176	172	132	906	10	4
Lawrence Park	827	402	425	802	95.88	302	222	186	117	.....	795	32	....
Malvern	993	508	485	956	94.81	257	239	213	172	112	991	2	....
North	1,286	674	612	1,215	94.30	254	312	262	214	244	1,216	63	7
Oakwood	985	536	449	940	95.49	231	221	189	179	165	979	5	1
Parkdale	848	484	364	808	95.35	201	198	186	173	90	848	......	....
Riverdale	1,068	600	468	842	95.12	273	254	218	202	121	1,067	......	1
Vankleek Hill	149	56	93	148	95.54	41	32	31	17	28	39	77	33
Windsor—Kennedy	915	464	451	907	97.59	276	246	178	126	89	867	48	....
Patterson	872	414	458	864	97.04	276	230	161	129	66	866	6	....
Sandwich	415	187	228	400	96.99	107	115	90	77	26	395	20	....
Walkerville	819	397	422	777	97.08	225	169	251	116	58	735	84	....
Woodstock	537	250	287	543	89.61	240	116	84	57	40	405	131	1
York Twp.—													
Memorial	649	338	311	650	95.98	372	126	69	59	33	638	9	2
Runnymede	864	454	410	828	94.96	258	182	175	160	89	642	216	6
Vaughan Rd.	1,121	588	533	1,082	93.57	458	244	202	139	78	1,013	107	1
York East Twp.	821	487	334	930	95.08	331	249	124	81	36	806	14	1
York North Twp.	275	127	148	279	96.15	78	87	60	30	20	194	81	....
Totals	41,192	20,703	20,489	39,134	95.11	12,603	9,656	8,238	6,296	4,399	35,803	4,889	500
In Districts													
Fort William	708	320	388	677	96.39	219	187	121	64	67	651	57	....
North Bay	468	228	240	402	95.25	146	125	93	114	40	421	26	21
Port Arthur	358	162	196	338	96.04	......	109	111	67	71	340	......	18
Sault Ste. Marie	725	327	398	683	93.70	216	194	136	122	57	659	66	....
Totals	2,259	1,037	1,222	2,100	95.21	581	615	461	367	235	2,071	149	39
All Coll. Institutes	43,451	21,740	21,711	41,234	95.12	13,184	10,271	8,699	6,663	4,634	37,874	5,038	539

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 36—ATTENDANCE, GRADE ENROLMENT, ENROLMENT BY AREAS, 1937-38

HIGH SCHOOLS	ATTENDANCE					GRADE ENROLMENT					ENROLMENT BY AREAS		
	May Enrolment	Male	Female	Average Daily Attendance for the Year	Attendance Efficiency Percentage	Grade IX	Grade X	Grade XI	Grade XII	Grade XIII	Resident Pupils	County Pupils	Non-Resident Pupils
In Counties													
Alexandria.......	124	41	83	117	94.56	40	34	20	18	12	110	11	3
Alliston..........	133	51	82	93	93.98	39	30	24	17	23	54	72	7
Almonte...	123	52	71	120	96.10	36	30	32	12	13	80	39	4
Amherstburg.....	147	61	86	142	94.10	44	35	33	16	19	86	61	.....
Arnprior.........	338	162	176	290	93.42	118	84	69	33	34	250	62	26
Arthur...........	151	59	92	133	95.61	38	35	28	25	25	55	95	1
Athens..........	131	52	79	113	90.92	43	29	24	14	21	34	97	.....
Aurora..........	186	79	107	163	94.53	59	30	41	29	27	82	104	.....
Avonmore........	72	31	41	68	93.33	23	9	23	.....	17	56	7	9
Aylmer..........	170	58	112	153	96.62	51	35	33	22	29	81	89	.....
Beamsville.......	193	87	106	183	90.91	70	31	41	24	27	56	137	.....
Blenheim.........	182	73	109	181	95.87	62	33	50	25	12	71	110	1
Bowmanville.....	282	121	161	265	88.23	73	82	58	47	22	204	78	.....
Bradford.........	98	40	58	101	94.84	23	20	22	18	15	47	50	1
Brampton........	319	116	203	313	95.95	106	71	68	42	32	170	140	9
Brighton.........	94	36	58	96	94.11	24	31	8	18	13	56	37	1
Burford..........	74	29	45	73	91.46	19	27	6	14	8	74	......	.....
Burlington.......	302	151	151	305	96.80	104	83	51	38	26	181	101	20
Caledonia........	164	74	90	159	97.09	68	46	23	15	12	53	62	49
Campbellford.....	194	90	104	181	96.25	67	38	39	22	28	104	87	3
Carleton Place....	205	93	112	204	95.93	68	56	46	20	15	135	59	11
Cayuga..........	89	33	56	81	95.11	19	24	24	7	15	27	62	.....
Chesley..........	126	52	74	128	97.24	47	22	25	17	15	67	45	14
Chesterville......	120	39	81	108	95.28	29	37	24	15	15	51	49	20
Colborne.........	109	42	67	107	92.59	29	25	20	15	20	56	52	1
Deseronto........	78	28	50	78	94.09	23	20	20	6	9	40	37	1
Dundalk.........	87	44	43	81	92.48	25	16	24	8	14	38	38	11
Dundas..........	254	103	151	249	95.05	101	69	34	37	13	166	88	.....
Dunnville........	185	84	101	181	96.72	57	49	39	22	18	103	74	8
Durham.........	88	34	54	84	94.47	29	22	14	9	14	53	35	.....
Dutton..........	114	41	73	109	93.93	22	23	24	17	28	37	77	.....
Elmira...........	131	62	69	131	96.67	40	48	12	18	13	83	41	7
Elora............	78	32	46	73	92.90	39	25	10	3	1	45	33	.....
Embrun.........	51	19	32	46	97.51	10	10	10	21	.....	40	8	3
Essex............	233	88	145	223	94.88	72	57	49	35	20	104	129	.....
Etobicoke........	316	150	166	255	94.80	95	90	61	41	29	302	5	9
Exeter...........	173	74	99	155	95.36	48	40	33	27	25	81	87	5
Fergus...........	211	85	126	211	96.57	65	55	39	19	33	130	74	7
Finch............	92	31	61	84	96.47	27	23	20	11	11	19	73	.....
Flesherton.......	82	50	32	80	91.05	28	17	11	13	13	77	......	5
Forest...........	126	47	79	121	93.77	41	21	30	16	18	66	60	.....
Fort Erie........	268	132	136	250	94.64	89	85	42	38	14	255	12	1
Gananoque.......	184	69	115	174	95.11	70	59	21	17	17	134	39	11
Georgetown......	132	56	76	131	95.49	53	32	18	17	12	86	37	9
Glencoe..........	133	55	78	131	95.42	36	28	29	24	16	41	85	7
Grimsby.........	154	73	81	153	94.89	45	33	41	20	15	89	65	.....
Hagersville.......	166	84	82	163	94.31	64	24	46	18	14	76	81	9
Hanover.........	148	52	96	122	86.94	44	54	26	14	10	96	36	16
Harriston........	94	39	55	93	96.38	30	26	12	9	17	56	34	4
Havelock........	68	20	48	63	93.00	20	15	16	11	6	46	19	3
Hawkesbury(Eng.)	90	46	44	88	92.99	28	23	15	12	12	56	22	12
(Fr.)..	107	57	50	116	94.77	32	34	18	23	.....	101	5	1
Iroquois.........	108	55	53	111	95.90	29	28	15	18	18	45	60	3
Kemptville.......	130	58	72	129	93.01	36	38	13	24	19	56	63	11
Kincardine.......	145	59	86	151	97.19	57	33	20	14	21	83	62	.....
Kingsville........	152	68	84	148	96.57	57	36	29	18	12	108	44	.....
Lakefield........	87	35	52	88	92.39	23	22	24	10	8	50	37	.....
Leamington......	322	149	173	324	94.25	122	81	53	38	28	198	114	10

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 36—ATTENDANCE, GRADE ENROLMENT, ENROLMENT BY AREAS, 1937-38

HIGH SCHOOLS	ATTENDANCE					GRADE ENROLMENT					ENROLMENT BY AREAS		
	May Enrolment	Male	Female	Average Daily Attendance for the Year	Attendance Efficiency Percentage	Grade IX	Grade X	Grade XI	Grade XII	Grade XIII	Resident Pupils	County Pupils	Non-Resident Pupils
In Counties													
Listowel	212	73	139	190	95.55	67	49	52	18	26	91	106	15
Lucan	86	37	49	73	92.79	34	25	13	9	5	33	53	.....
Lucknow	104	43	61	95	93.55	31	20	17	22	14	42	18	44
Madoc	125	57	68	129	96.34	43	35	23	14	10	124	1	.....
Markdale	85	32	53	75	96.15	29	11	24	7	14	38	47	.....
Markham	172	73	99	165	94.54	53	41	30	21	27	44	107	21
Marmora	101	45	56	99	91.81	37	30	14	12	8	58	42	1
Maxville	123	57	66	115	93.00	34	25	19	23	22	33	40	50
Meaford	180	84	96	162	96.59	45	57	33	26	19	116	60	4
Merriton	151	67	84	153	94.98	46	46	39	14	6	110	41	.....
Midland	393	177	216	389	96.17	133	111	74	39	36	312	75	6
Milton	161	71	90	146	93.52	53	41	31	16	20	71	90	.....
Mimico	686	345	341	701	96.28	212	215	158	66	35	349	337	.....
Mitchell	171	65	106	167	96.88	38	39	49	20	25	70	100	1
Morewood	42	21	21	37	90.79	18	9	9	5	1	20	16	6
Mount Forest	117	45	72	117	96.61	45	27	19	13	13	73	23	21
Nepean	471	201	270	442	94.05	150	115	111	49	46	428	42	1
Newburgh	66	33	33	64	92.30	21	13	9	12	11	11	55	.....
Newcastle	35	19	16	34	89.98	12	10	9	4	.....	14	21	.....
Newmarket	278	127	151	267	95.29	107	60	58	36	17	144	123	11
Niagara	64	29	35	66	94.81	22	17	14	6	5	45	19	.....
Norwich	115	54	61	108	93.06	28	30	25	15	17	56	52	7
Norwood	103	44	59	109	90.95	30	21	21	17	14	38	53	12
Oakville	250	104	146	242	94.69	71	80	44	27	28	130	120	.....
Omemee	55	23	32	53	94.00	18	17	12	8	.....	28	21	6
Orangeville	157	70	87	154	94.90	42	36	41	19	19	98	40	19
Paris	191	88	103	188	95.06	60	50	36	18	27	133	48	10
Parkhill	95	37	58	89	94.70	22	29	11	17	16	32	57	6
Penetanguishene	155	60	95	153	94.24	66	30	31	28	.....	138	15	2
Petrolia	191	85	106	174	93.81	58	38	44	26	25	111	80	.....
Plantagenet	108	39	69	106	94.06	24	20	24	26	14	75	32	1
Port Colborne	334	138	196	333	96.52	121	101	53	37	22	218	116	.....
Port Credit	368	142	226	361	94.11	124	115	45	44	40	95	273	.....
Port Dover	82	34	48	76	93.58	34	21	21	6	.....	60	20	2
Port Elgin	87	27	60	82	96.21	29	16	14	9	19	44	43	.....
Port Hope	244	102	142	231	95.55	90	60	56	19	19	180	53	11
Port Perry	125	57	68	112	95.60	38	31	21	17	18	60	63	2
Port Rowan	27	11	16	27	91.65	15	6	4	2	...	11	16	.....
Prescott	167	80	87	166	92.87	51	43	25	25	23	125	42	.....
Richmond Hill	198	95	103	187	92.53	73	49	35	24	17	57	141	.....
Ridgetown	157	64	93	144	94.71	36	33	32	27	29	78	76	3
Ridgeway	114	47	67	110	92.34	38	26	27	15	8	79	35	.....
Rockland	97	32	65	86	96.08	30	18	24	25	.....	69	27	1
Saltfleet	202	90	112	199	91.07	69	45	56	15	17	164	37	1
Shelburne	128	61	67	122	94.22	32	22	24	23	27	58	69	1
Simcoe	325	132	193	282	94.66	108	77	44	51	45	184	137	4
Smithville	90	35	55	91	94.98	31	23	16	11	9	58	32	.....
Stirling	97	40	57	99	96.28	34	16	21	13	13	95	......	2
Streetsville	50	19	31	49	95.92	14	15	7	14	.....	22	24	4
Sydenham	126	57	69	126	95.78	32	29	23	23	19	126	......	.....
Thorold	301	137	164	302	94.80	131	87	48	18	17	249	52	.....
Tilbury	118	58	60	114	92.49	42	28	23	17	8	64	39	15
Tillsonburg	261	111	150	262	95.66	72	83	42	30	34	145	46	70
Trenton	250	98	152	257	95.76	83	51	49	34	33	198	24	28
Tweed	140	58	82	132	92.33	43	30	37	16	14	58	76	6
Uxbridge	137	60	77	142	94.61	37	21	37	17	25	55	75	7
Vienna	26	8	18	22	96.88	9	5	6	6	.....	22	3	1
Walkerton	138	61	77	136	96.39	51	36	25	19	7	79	58	1

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 36—ATTENDANCE, GRADE ENROLMENT, ENROLMENT BY AREAS, 1937-38

HIGH SCHOOLS	ATTENDANCE					GRADE ENROLMENT					ENROLMENT BY AREAS		
	May Enrolment	Male	Female	Average Daily Attendance for the Year	Attendance Efficiency Percentage	Grade IX	Grade X	Grade XI	Grade XII	Grade XIII	Resident Pupils	County Pupils	Non-Resident Pupils
In Counties													
Wallaceburg......	207	82	125	210	94.79	66	52	41	27	21	137	48	22
Wardsville.......	30	11	19	26	93.27	15	5	3	7	.....	8	16	6
Waterdown......	153	59	94	149	94.08	56	24	43	14	16	122	21	10
Waterford........	119	49	70	122	95.25	38	30	17	26	8	45	70	4
Watford.........	129	58	71	120	94.33	34	27	21	21	26	46	78	5
Welland.........	376	188	188	331	95.93	115	88	73	65	35	244	132	.....
Weston..........	395	204	191	381	95.23	130	90	88	52	35	247	142	6
Whitby..........	190	82	108	193	95.30	65	46	28	16	35	131	59	.....
Wiarton.........	101	35	66	101	95.08	25	33	18	14	11	74	14	13
Williamstown.....	125	54	71	108	94.78	36	28	25	22	14	123	1	1
Winchester.......	127	56	71	121	95.96	32	33	21	18	23	49	62	16
Wingham........	154	50	104	149	97.69	55	33	31	22	13	80	72	2
Totals.........	20,651	8,888	11,763	19,796	94.86	6,639	5,136	4,018	2,645	2,213	12,224	7,606	821
In Districts													
Bracebridge......	189	75	114	188	96.05	59	41	31	30	28	113	73	3
Capreol..........	91	42	49	83	93.89	23	31	20	11	6	77	14	.....
Chapleau.........	152	61	91	158	94.04	67	33	23	17	12	140	10	2
Cobalt...........	146	72	74	141	87.77	66	29	25	14	12	103	43	.....
Cochrane........	146	63	83	152	95.75	61	34	28	13	10	133	13	.....
Copper Cliff......	157	74	83	146	96.03	74	40	27	16	.....	138	19	.....
Dryden..........	99	37	62	106	96.23	36	21	14	12	16	78	21	.....
Englehart........	72	24	48	69	93.06	24	17	18	9	4	68	4	.....
Fort Frances.....	238	99	139	236	95.94	49	56	76	38	19	198	40	.....
Gore Bay........	55	25	30	55	94.69	10	12	15	7	11	39	16	.....
Gravenhurst......	88	38	50	85	91.06	33	24	13	13	5	64	22	2
Haileybury.......	85	28	57	79	93.00	36	16	9	18	6	67	17	1
Huntsville........	134	55	79	132	94.73	47	31	24	17	15	86	48	.....
Iroquois Falls.....	119	57	62	120	97.32	59	25	18	14	3	57	62	.....
Kapuskasing......	161	71	90	151	95.79	65	38	27	21	10	148	11	2
Keewatin........	79	34	45	77	93.42	33	23	12	11	.....	78	1	.....
Kenora..........	393	162	231	382	96.48	149	92	70	52	30	377	14	2
Kirkland Lake....	248	109	139	214	92.33	101	61	36	30	20	245	......	3
Mattawa.........	68	30	38	70	94.62	28	15	12	5	8	61	7	.....
New Liskeard.....	200	65	135	200	93.42	62	48	53	27	10	124	74	2
Parry Sound......	191	71	120	178	83.04	53	46	39	30	23	166	25	.....
Rainy River......	101	49	52	100	94.72	31	27	21	19	3	95	6	.....
Sturgeon Falls....	222	104	118	212	94.59	89	51	25	34	23	169	49	4
Sudbury.........	371	161	210	364	94.73	81	76	98	83	33	330	33	8
Tessalon.........	95	39	56	81	93.44	28	27	23	6	11	65	30	.....
Timmins.........	441	194	247	439	95.19	169	111	82	44	35	427	......	14
Tisdale Twp.—													
Schumacher....	159	80	79	157	96.84	60	29	22	24	24	147	12	.....
South Porcupine	98	41	57	97	96.03	50	31	17	.....	.....	75	23	.....
Totals.........	4,598	1,960	2,638	4,472	94.06	1,643	1,085	878	615	377	3,868	687	43
Totals, all High Schools.	25,249	10,848	14,401	24,268	94.71	8,282	6,221	4,896	3,260	2,590	16,092	8,293	864
Grand Totals.....	68,700	32,588	36,112	65,502	95.72	21,466	16,492	13,595	9,923	7,224	53,966	13,331	1,403
Increases for year..	801	......	1,123	739	2.21	1,964	......	69	.....	.....	487	432	.....
Decreases for year	......	322	......	......	......	......	383	......	111	738	......	......	118
Percentages......	......	47.43	52.57	95.34	......	31.24	24.00	19.79	14.44	10.53	78.55	19.40	2.05

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 37—AGE-GRADE DISTRIBUTION, MAY, 1938

		10 years	11 years	12 years	13 years	14 years	15 years	16 years	17 years	18 years	19 years	20 years	21 years and over	Totals	Grade Totals
GRADE IX.........	Boys	1	19	317	2,036	3,537	2,755	1,228	363	75	9	1	2	10,343	21,466
	Girls	....	30	385	2,606	4,112	2,629	1,056	252	44	4	3	2	11,123	
GRADE X..........	Boys	....	....	9	308	1,682	2,709	1,821	799	218	55	10	6	7,617	16,492
	Girls	....	1	30	408	2,194	3,226	1,961	766	219	43	14	13	8,875	
GRADE XI.........	Boys	....	....	....	17	235	1,313	2,250	1,579	653	200	34	30	6,311	13,595
	Girls	....	....	....	31	332	1,880	2,617	1,566	612	174	45	27	7,284	
GRADE XII........	Boys	....	....	....	2	10	216	1,046	1,678	1,099	435	149	50	4,685	9,923
	Girls	....	....	....	....	23	311	1,367	1,981	1,040	394	98	24	5,238	
GRADE XIII.......	Boys	....	....	....	....	....	26	217	845	1,250	803	343	148	3,632	7,224
	Girls	....	....	....	....	....	31	275	1,089	1,258	625	221	93	3,592	
TOTALS BY SEXES...	Boys	1	19	326	2,363	5,464	7,019	6,562	5,264	3,295	1,502	537	236	32,588	
	Girls	....	31	415	3,045	6,661	8,077	7,276	5,654	3,173	1,240	381	159	36,112	
GRAND TOTALS..	.....	1	50	741	5,408	12,125	15,096	13,838	10,918	6,468	2,742	918	395	68,700	

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 38—FINANCIAL STATISTICS, 1937

Collegiate Institutes	Average Daily Attendance A	Major Sources of Receipts			Disbursements		Cost per Pupil-Day (in cents)			Debenture Indebtedness	
		Legislative Grant	County Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	Amount (including Arrears)	Per $1,000 of equalized assessment
In Counties		$	$	$	$	$				$	$
Barrie	538	3,484	16,272	29,353	39,332	13,921	42.2	14.9	57.1	c100,860	21.17
Belleville	458	2,434	....	38,552	46,380	2,789	51.6	3.1	54.7	236,850	22.35
Brantford	797	2,404	....	58,775	63,701	11,346	42.8	7.6	50.4	c308,319	11.55
Brockville	500	4,651	10,590	37,000	51,255	26,078	58.6	29.7	88.3	c231,143	28.57
Chatham	465	2,468	9,926	34,920	46,641	....	55.6	....	55.6	....	....
Clinton	156	2,916	8,595	8,235	12,345	5,833	41.7	19.7	61.4	65,478	85.09
Cobourg	294	4,970	15,070	15,124	31,114	1,524	53.6	2.6	56.2	13,513	44.63
Collingwood	277	4,006	4,575	23,111	23,028	8,586	46.4	17.3	63.7	100,942	37.99
Cornwall	492	2,688	13,340	36,810	32,042	7,775	37.1	9.0	46.1	c81,703	84.09
Galt	347	2,190	6,693	33,221	38,871	4,763	67.0	8.2	75.2	13,693	1.24
Goderich	233	3,666	5,738	16,976	21,011	3,990	52.0	9.8	61.9	43,457	22.97
Guelph	582	2,709	....	48,024	49,491	15,034	58.2	17.7	75.9	c428,650	22.97
Hamilton (3)	2,489	6,461	....	339,575	266,078	37,611	66.9	8.0	74.9	713,306	4.33
Ingersoll	251	3,160	2,308	19,235	25,953	....	52.7	....	52.7	....	....
Kingston	707	4,480	....	66,328	70,609	5,555	52.0	4.0	56.0	70,400	3.71
Kitchener-Waterloo	547	2,128	....	47,123	43,412	12,561	42.4	12.2	54.6	134,180	3.95
Lindsay	441	5,203	14,355	24,393	36,463	5,393	45.3	6.7	52.0	45,772	10.74
London (3)	2,240	10,558	....	285,045	245,227	84,598	62.9	21.7	84.6	505,672	6.17
Morrisburg	138	3,156	8,481	8,165	13,970	4,553	57.0	18.6	75.6	51,961	72.06
Napanee	199	4,160	9,819	10,058	20,551	2,405	60.3	7.0	67.3	c40,000	35.15
Niagara Falls	423	1,915	135	60,851	43,101	E5,353	51.9	6.4	58.3	95,559	118.34
Orillia	477	4,454	10,759	23,802	33,761	5,494	39.3	6.4	45.7	53,227	9.12
Oshawa	583	2,282	....	76,008	53,666	30,873	48.1	27.7	75.8	c374,507	14.23
Ottawa (2)	2,560	4,570	....	350,990	287,855	74,260	61.7	15.9	77.6	568,789	3.72
Owen Sound	371	1,951	6,227	26,000	35,609	....	50.9	....	50.9	c242,000	....
Pembroke	243	2,035	4,216	8,872	19,194	D	45.5	D	....	c179,752	39,64
Perth	298	3,989	9,888	8,104	22,768	3,715	39.1	6.3	45.4	22,222	12.41
Peterborough	508	2,047	....	53,433	60,253	3,708	64.0	3.9	67.9	34,678	14.24
Picton	157	2,075	2,690	1,632	13,430	2,419	45.1	8.1	53.2	c1,239	.41
Renfrew	253	2,850	7,609	9,800	23,323	9,633	48.7	20.1	68.8	100,964	31.01
St. Catharines	684	3,853	14,281	71,973	71,876	20,099	56.1	15.7	71.8	c333,166	14.03
St. Mary's	321	3,861	....	15,883	22,003	3,783	37.5	6.4	43.9	34,923	14.82
St. Thomas	624	3,037	11,976	43,304	58,080	3,763	52.5	3.4	55.9	14,726	.97
Sarnia	658	2,728	14,066	72,911	64,898	23,244	54.4	19.4	73.8	53,413	2.88
Scarborough	341	2,704	14,259	16,740	33,505	D	54.2	D	....	c273,132	35.41
Seaforth	130	2,555	6,319	5,708	13,944	....	54.5	....	54.5	....	....
Smith's Falls	434	5,694	6,666	25,628	36,613	4,553	44.5	5.5	50.0	17,061	3.77
Stamford	377	2,566	15,866	12,520	33,070	9,413	44.6	12.7	57.3	c108,870	13.69

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 38—FINANCIAL STATISTICS, 1937

Collegiate Institutes	Average Daily Attendance A	Major Sources of Receipts			Disbursements		Cost per Pupil-Day (in cents)			Debenture Indebtedness	
		Legislative Grant	County Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	Amount (including Arrears)	Per $1,000 of equalized assessment
In Counties		$	$	$	$	$				$	$
Stratford	779	5,611	3,814	63,309	60,106	12,146	44.3	8.9	53.3	c92,645	6.75
Strathroy	177	2,859	7,387	9,102	17,837	2,602	53.9	7.8	61.7	15,612	9.25
Toronto (10)	8,945	23,462	....	1,620,617	1,318,182	333,422	87.2	22.0	109.2	4,179,923	42.91
Vankleek Hill	160	2,640	12,496	3,000	16,763	1,036	55.1	3.4	58.5	2,278	1.80
Windsor (4)	3,000	12,517	....	304,259	309,616	16,202	54.1	2.8	56.9	F	F
Woodstock	480	4,126	6,731	29,200	39,460	2,413	44.2	2.7	46.9	c35,800	4.80
York East	813	8,170	36,752	41,802	73,125	12,253	55.6	9.3	64.9	c332,621	22.87
York North	227	2,462	17,717	29,103	26,791	29,497	59.7	65.7	125.4	177,179	42.57
York Township (3)	2,219	20,112	120,981	109,147	189,614	58,635	52.8	16.3	69.1	c1,033,423	35.21
Totals and Averages	38,393	215,017	456,597	4,273,721	4,155,917	G922,831	60.7	13.6	74.3	11,321,608	6.06
In Districts											
Fort William	695	7,999	....	97,979	70,895	35,445	52.5	26.3	78.8	484,250	16.86
North Bay	419	4,933	....	37,899	34,379	8,375	41.5	10.1	51.6	66,601	7.00
Port Arthur	334	4,324	....	47,022	44,101	10,244	67.2	15.6	82.8	18,987	.72
Sault Ste. Marie	710	7,985	....	17,435	56,224	23,491	41.4	17.7	59.1	279,700	14.68
Totals and Averages	2,158	25,241	....	200,335	205,599	77,555	49.6	18.7	68.3	849,538	10.16
All Collegiate Institutes	40,551	240,258	456,597	4,474,056	4,361,516	G1,000,386	60.0	13.9	73.9	12,171,146	7.30
High Schools											
In Counties											
Alexandria	138	1,408	....	7,721	11,702	....	46.3	....	46.3	....	....
Alliston	136	2,173	5,458	5,110	9,623	1,660	41.2	7.1	48.3	10,000	14.13
Almonte	117	2,399	4,434	9,387	12,405	5,582	55.7	25.1	80.8	69,000	69.45
Amherstburg	132	1,733	7,005	11,732	12,085	8,033	47.4	31.6	79.0	28,977	14.86
Arnprior	290	4,332	9,181	12,936	22,330	3,991	41.5	7.5	49.0	45,242	23.67
Arthur	132	1,794	3,634	2,636	9,243	265	39.0	1.1	40.1	797	1.25
Athens	115	2,100	5,296	3,274	10,861	3,274	62.6	18.9	81.5	32,345	141.87
Aurora	169	2,904	16,018	6,822	16,382	7,293	54.5	24.2	78.7	79,290	57.57
Avonmore	68	1,244	1,603	....	7,430	....	59.9	....	59.9	....	....
Aylmer	170	1,644	6,813	5,150	13,955	225	49.6	.8	50.4	9,861	49.77
Bancroft	57	785	744	1,293	2,832	209	26.6	1.9	28.5	2,928	2.01
Beamsville	136	2,902	12,213	5,278	15,433	1,591	57.5	5.9	63.4	c56,810	76.61
Blenheim	168	2,877	9,136	5,415	14,901	4,673	49.5	1.5	51.0	33,363	41.81

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 38—FINANCIAL STATISTICS, 1937

High Schools	Average Daily Attendance A	Major Sources of Receipts			Disbursements		Cost per Pupil-Day (in cents)			Debenture Indebtedness	
		Legislative Grant	County Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	Amount (including Arrears)	Per $1,000 of equalized assessment
In Counties		$	$	$	$	$				$	$
Bowmanville	266	3,746	14,086	14,446	23,516	17,447	46.7	34.7	81.4	88,966	36.90
Bradford	107	1,805	....	6,801	8,836	3,784	46.5	19.9	66.4	39,592	69.47
Brampton	351	3,769	12,758	22,391	30,255	7,391	48.6	11.9	60.5	64,955	18.91
Brighton	105	1,369	5,212	2,307	7,855	1,307	38.0	6.6	44.6	8,120	11.78
Burford	75	1,726	6,724	7,434	8,162	5,270	54.6	35.2	89.8	42,800	11.28
Burlington	288	4,132	15,682	16,229	27,693	11,170	50.3	20.3	70.6	109,797	39.68
Caledonia	165	3,857	8,355	7,221	17,052	7,221	56.3	23.8	80.1	34,963	139.85
Campbellford	186	2,715	13,205	10,514	22,879	8,462	69.7	25.8	95.5	80,977	55.23
Carleton Place	205	2,753	9,264	14,256	21,849	8,256	55.9	21.2	77.1	87,932	43.48
Cayuga	89	1,657	7,886	6,401	9,793	6,102	63.4	39.6	103.0	30,514	234.72
Chesley	125	2,339	5,333	4,800	12,704	....	55.3	....	55.3	....	....
Chesterville	122	1,623	3,934	2,186	7,263	....	31.9	....	31.9	....	....
Colborne	95	1,514	....	2,005	7,237	3,487	37.9	20.2	58.1	14,690	27.13
Deseronto	78	1,333	145	3,000	7,315	....	47.7	....	47.7	....	....
Dundalk	84	1,755	5,177	2,025	7,430	325	45.1	3.3	48.4	975	3.82
Dundas	258	1,966	9,854	15,433	19,138	9,219	38.4	18.5	56.9	81,818	20.67
Dunnville	198	4,320	7,508	9,420	20,853	1,831	60.5	5.3	65.8	6,189	6.10
Durham	100	2,636	5,190	8,179	10,761	3,179	57.5	17.0	74.5	17,642	43.56
Dutton	112	1,802	6,728	4,871	10,988	3,707	53.3	17.9	71.2	46,208	60.02
Elmira	131	2,587	3,801	7,700	13,984	....	57.7	....	57.7	....	....
Elora	68	1,075	1,931	1,833	6,156	497	46.7	3.8	50.5	3,098	4.63
Embrun	97	978	2,834	2,292	4,608	....	38.6	....	38.6	....	....
Essex	229	3,009	5,753	6,266	13,607	D	31.5	D	....	83,003	79.99
Exeter	160	2,139	4,782	4,200	10,765	882	38.4	3.7	42.1	7,823	9.13
Etobicoke	268	3,200	16,135	19,340	30,903	8,201	68.1	18.1	86.2	113,659	30.77
Fergus	199	2,773	8,346	11,605	17,948	6,505	45.6	16.5	62.1	81,652	59.55
Finch	91	1,973	6,304	1,774	8,962	....	58.2	....	58.2	....	....
Flesherton	81	1,311	4,373	3,442	8,251	....	65.1	....	65.1	....	....
Forest	119	2,246	6,001	7,709	10,893	3,209	47.9	14.4	62.3	26,661	46.72
Fort Erie	195	1,889	14,001	22,232	24,759	D	65.0	D	....	146,555	31.45
Gananoque	175	2,078	2,107	13,750	17,171	....	54.8	....	54.8	....	....
Georgetown	125	1,795	6,501	6,260	14,123	1,260	64.9	5.8	70.7	5,882	3.64
Glencoe	117	1,956	3,973	2,478	10,285	....	43.7	....	43.7	....	....
Grimsby	151	2,371	9,647	9,482	14,102	7,483	50.6	26.9	77.5	80,803	58.34
Hagersville	159	3,249	6,636	6,849	14,010	3,049	46.7	10.1	56.8	28,967	115.86
Hanover	133	2,863	8,116	11,516	15,003	4,816	66.4	21.2	87.6	50,929	61.73
Harriston	84	1,306	1,702	2,852	8,142	....	51.5	....	51.5	....	....
Havelock	70	1,051	2,937	2,050	4,789	302	37.0	2.3	39.3	2,143	7.00

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 38—FINANCIAL STATISTICS, 1937

High Schools	Average Daily Attendance A	Major Sources of Receipts			Disbursements		Cost per Pupil-Day (in cents)			Debenture Indebtedness	
		Legislative Grant	County Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	Amount (including Arrears)	Per $1,000 of equalized assessment
In Counties		$	$	$	$	$				$	$
Hawkesbury (2)	209	3,362	5,731	15,779	21,725	....	58.4	....	58.4	....	....
Iroquois	110	2,425	6,597	3,507	11,226	2,007	54.1	9.7	63.8	3,732	6.92
Kemptville (H)	126	5,382	6,996	2,752	15,387	1,652	62.3	6.7	69.0	20,814	64.04
Kincardine	140	2,597	5,967	5,745	14,290	....	55.7	....	55.7	....	....
Kingsville	139	1,722	3,737	6,082	12,162	D	44.2	D	....	38,092	22.04
Lakefield	82	2,122	4,446	4,800	11,787	....	68.9	....	68.9	....	....
Leamington	310	2,091	6,043	9,522	19,759	D	34.0	D	....	43,692	10.45
Listowel	194	2,883	7,384	7,376	15,743	1,376	44.6	3.9	48.5	10,371	6.66
Lucan	69	1,898	3,684	3,200	8,625	....	67.7	....	67.7	....	....
Lucknow	93	1,543	3,738	1,399	6,505	....	36.8	....	36.8	....	....
Madoc	125	2,166	2,641	4,820	9,730	2,820	43.8	12.7	56.5	27,755	70.66
Markdale	95	1,741	4,146	2,100	7,939	....	66.4	....	66.4	....	....
Markham	165	2,342	9,890	2,790	14,510	2,072	46.4	6.6	53.0	5,261	11.95
Marmora	102	1,625	4,194	2,410	7,535	589	40.1	3.1	43.2	1,769	7.39
Maxville	112	1,835	6,343	2,531	8,349	1,331	41.4	6.6	48.0	6,836	20.67
Meaford	165	3,196	7,199	8,500	15,388	3,531	48.8	11.2	60.0	34,971	39.18
Merritton	148	1,797	8,060	11,960	13,758	6,072	53.1	23.4	76.5	64,343	34.93
Midland	375	3,140	7,692	23,302	26,238	9,174	37.6	12.8	50.4	117,392	23.39
Milton	147	1,888	I	7,086	14,173	7,086	53.8	26.9	80.7	60,985	41.02
Mimico	701	11,9 7	44,828	17,198	51,015	16,308	44.6	14.3	58.9	226,427	55.96
Mitchell	147	2,042	7,147	6,162	11,957	3,562	43.9	13.1	57.0	36,000	38.19
Morewood	36	1,072	2,695	705	6,562	....	98.0	....	98.0	....	....
Mount Forest	109	1,709	2,348	4,400	9,697	....	45.0	....	45.0	....	....
Nepean	465	2,904	8,451	33,586	31,590	15,036	36.7	17.5	54.2	151,727	20.71
Newburgh	62	1,709	4,505	1,100	7,233	....	62.6	....	62.6	....	....
Newmarket	240	5,325	22,989	9,640	28,732	9,640	60.7	20.4	81.1	53,000	22.61
Newcastle	32	843	2,000	1,241	4,198	....	69.9	....	69.9	....	....
Niagara	77	1,464	5,018	3,936	10,789	856	76.4	6.1	82.5	5,790	7.17
Norwich	117	2,356	6,564	6,290	11,460	2,833	49.4	12.2	61.6	22,991	37.95
Norwood	104	2,375	9,394	771	10,161	....	51.5	....	51.5	....	....
Oakville	234	1,766	15,189	10,459	23,270	4,944	50.6	10.5	61.1	38,873	11.14
Omemee	50	747	1,249	1,657	3,966	149	43.2	1.6	44.8	149	.40
Orangeville	151	2,693	3,860	7,886	14,691	460	53.7	1.7	55.4	1,266	1.09
Paris	208	2,299	11,585	9,206	20,195	2,786	51.5	7.1	58.6	5,800	1.89
Parkhill	94	1,508	2,458	3,800	8,275	....	48.8	....	48.8	....	....
Penetanguishene	136	1,920	....	9,743	9,403	1,493	35.0	5.6	40.6	4,485	3.70
Petrolia	177	3,516	....	13,206	17,642	8,706	50.8	25.1	75.9	58,923	56.17

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 38—FINANCIAL STATISTICS, 1937

High Schools	Average Daily Attendance A	Major Sources of Receipts			Disbursements		Cost per Pupil-Day (in cents)			Debenture Indebtedness	
		Legislative Grant	County Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	Amount (including Arrears)	Per $1,000 of equalized assessment
In Counties		$	$	$	$	$				$	$
Plantagenet	107	1,428	7,346	5,335	8,422	2,006	44.4	10.6	55.0	27,984	17.91
Port Colborne	283	2,393	18,019	16,255	30,160	12,255	53.9	21.9	75.8	93,767	20.71
Port Credit	338	5,056	24,158	11,182	25,189	13,073	46.0	23.8	69.8	168,316	130.88
Port Dover	77	1,105	1,494	3,368	5,929	674	42.7	4.8	47.5	3,594	2.71
Port Elgin	79	1,859	4,982	2,900	8,088	....	56.7	....	56.7	....	....
Port Hope	231	3,638	12,898	10,335	23,764	2,561	59.3	6.4	65.7	29,658	11.67
Port Perry	122	4,316	5,227	6,108	13,063	3,008	57.4	13.3	70.7	31,447	49.17
Port Rowan	26	801	1,237	1,877	3,916	....	78.3	....	78.3	....	....
Prescott	173	2,632	1,197	11,200	15,336	6,783	49.8	22.1	71.9	88,256	55.66
Richmond Hill	147	3,263	17,466	1,623	12,279	7,034	42.4	24.2	66.6	73,791	80.16
Ridgetown	147	2,995	5,901	7,718	16,072	....	58.7	....	58.7	....	....
Ridgeway	114	2,021	9,168	15,010	13,050	7,536	61.8	35.7	97.5	93,228	52.24
Rockland	91	1,920	2,781	3,169	7,111	....	41.6	....	41.6	....	....
Saltfleet	217	1,800	7,154	10,795	15,593	6,419	36.6	15.1	51.7	49,568	8.90
Shelburne	122	2,304	5,515	5,323	9,693	2,732	40.2	11.3	51.5	51,910	91.08
Simcoe	288	2,177	10,427	14,136	20,813	6,129	40.6	12.0	52.6	c71,644	16.46
Smithville	95	1,624	4,201	5,624	8,661	1,924	51.4	11.4	62.8	13,472	19.03
Stirling	102	2,375	3,681	2,251	10,317	1,251	56.2	6.8	63.0	5,434	14.37
Streetsville	70	1,520	2,762	2,368	6,807	....	65.0	....	65.0	....	....
Sydenham	116	1,435	....	9,600	11,002	....	48.2	....	48.2	....	....
Thorold	294	3,078	9,719	8,457	22,318	D	40.8	D	....	77,157	27.34
Tilbury	122	1,030	1,350	4,200	6,608	J2,000	33.6	10.2	43.8	....	....
Tillsonburg	256	3,288	7,143	11,613	19,201	2,613	41.8	5.7	47.5	24,589	13.62
Trenton	263	2,041	3,550	18,973	19,929	4,231	42.8	9.1	51.9	30,445	8.77
Tweed	128	2,231	3,192	8,903	10,062	3,138	42.1	13.1	55.2	3,138	6.29
Uxbridge	113	1,729	5,808	7,243	11,061	6,330	48.8	28.0	76.8	64,506	42.27
Vienna	22	792	1,509	850	3,214	....	81.7	....	81.7	....	....
Walkerton	114	2,556	7,278	6,900	13,721	....	61.5	....	61.5	....	....
Wallaceburg	209	3,124	5,243	12,193	18,513	2,893	49.6	7.8	57.4	7,552	4.16
Wardsville	18	707	....	677	2,633	....	70.0	....	70.0	....	....
Waterdown	152	1,928	6,204	10,677	14,736	4,293	49.6	14.6	64.2	86,258	24.85
Waterford	121	2,225	8,020	3,700	11,280	5,078	50.2	22.6	72.8	38,700	50.80
Watford	117	2,478	5,842	4,300	9,223	3,209	41.7	14.5	56.2	32,197	77.27
Welland	354	1,879	....	35,774	39,776	7,329	59.7	11.0	70.7	71,200	7.23
Weston	383	5,515	24,607	9,912	38,847	1,562	68.0	27.4	95.4	c192,169	c6.57
Whitby	180	3,475	500	18,635	19,989	4,135	57.1	11.8	68.9	44,872	19.94
Wiarton	113	1,997	4,833	3,755	9,001	1,255	48.5	6.6	55.1	11,343	20.10

THE COLLEGIATE INSTITUTES AND HIGH SCHOOLS

TABLE 38—FINANCIAL STATISTICS, 1937

High Schools	Average Daily Attendance A	Major Sources of Receipts			Disbursements		Cost per Pupil-Day (in cents)			Debenture Indebtedness	
		Legislative Grant	County Grant	School District Levy (B)	Current	Capital	Current	Capital	Total	Amount (including Arrears)	Per $1,000 of equalized assessment
In Counties		$	$	$	$	$				$	$
Williamstown	109	1,306	459	6,850	8,617	....	43.3	....	43.3	....	....
Winchester	133	2,656	6,328	2,420	12,091	420	47.8	16.6	64.4	2,105	3.91
Wingham	144	2,923	6,493	6,040	13,993	340	53.9	13.1	67.0	1,518	1.70
Totals and Averages	19,825	302,501	842,916	975,199	1,794,965	397,852	49.5	11.5	61.0	4,287,188	21.31
In Districts											
Bracebridge	177	7,711	....	12,321	13,420	6,108	45.2	20.5	65.7	68,916	66.41
Capreol	95	2,133	....	7,229	7,508	2,604	44.0	15.3	59.3	14,829	18.16
Chapleau	143	3,597	....	14,440	15,345	3,440	54.1	12.1	66.2	38,689	40.07
Cobalt	141	4,212	....	11,055	15,653	D	58.1	D	....	39,757	58.51
Cochrane	186	3,934	....	15,235	15,221	4,012	48.4	12.8	61.2	30,980	16.97
Copper Cliff(K)	156	....	....	34,137	8,048	12,814	72.2	115.0	187.2	212,911	41.05
Dryden	97	2,406	....	7,300	9,351	....	49.1	....	49.1	....	....
Englehart	69	2,085	....	5,317	7,058	....	54.3	....	54.3	....	....
Fort Frances	213	6,521	....	24,149	21,727	10,597	54.6	26.6	81.2	c111,464	c23.64
Gore Bay	62	1,848	....	4,316	4,428	1,816	38.1	15.6	53.7	11,099	43.87
Gravenhurst	73	2,615	....	6,074	8,507	....	69.5	....	69.5	....	....
Haileybury	71	3,444	....	9,600	10,767	....	77.1	....	77.1	....	....
Huntsville	125	3,003	....	5,563	9,718	1,961	42.9	8.6	51.5	16,392	13.82
Iroquois Falls	109	10,697	....	13,194	18,529	J5,620	89.9	27.3	117.2	....	....
Kapuskasing	146	4,036	....	23,798	22,066	4,046	80.3	14.7	95.0	87,053	21.93
Keewatin	79	2,173	....	4,900	6,924	....	45.5	....	45.5	....	....
Kenora	351	3,763	....	34,530	29,903	10,230	43.5	14.9	58.4	141,600	28.60
Kirkland Lake	200	3,798	....	32,974	26,784	3,923	71.6	10.5	82.1	c69,463	c12.62
Mattawa	66	1,839	....	3,279	4,437	....	35.2	....	35.2	....	....
New Liskeard	180	7,913	....	16,117	21,970	617	61.5	1.7	63.2	2,140	1.23
Parry Sound	191	3,136	....	12,786	14,866	1,040	41.3	2.9	44.2	1,040	6.39
Rainy River	105	2,560	....	5,769	8,439	....	38.1	....	38.1	....	....
Schumacher South Porcupine	234	7,545	....	60,673	38,984	24,669	79.5	50.3	129.8	103,761	14.97
Sturgeon Falls	88	7,905	....	10,276	18,330	D	43.1	D	....	8,280	4.05
Sudbury	298	6,100	....	31,776	39,448	2,276	67.4	38.9	106.3	2,276	.17
Thessalon	103	3,088	....	5,551	6,920	1,071	36.0	5.6	41.6	29,501	48.26
Timmins	424	3,892	....	57,108	48,607	9,251	58.4	11.2	69.6	104,012	12.80
Totals and Averages	4,185	111,954	....	469,467	452,958	G106,095	56.2	16.8	73.0	1,094,163	....
All High Schools	24,010	414,455	842,916	1,444,666	2,247,923	G543,947	50.7	12.8	63.5	5,381,351	....
Grand Totals	64,561	654,713	1,299,513	5,918,722	6,609,439	G1,544,333	56.5	13.4	69.9	17,552,497	

A Average Daily Attendance for the Calendar Year.
B Includes Debenture Levy.
C For Combined School.
E In addition, $10,779.59 was paid on arrears of principal.
F Not reported.
G Excluding defaults.
I County Grant paid direct to Town.
J Rent.
K Opened September 1, 1937.

THE VOCATIONAL

TABLE 39—DAY SCHOOLS—TEACHERS; PUPILS; MAY

Schools	Type of School	Teachers				Complete May Enrolment			
		Full-Time		Part-Time and Occasional					
		Male	Female	Male	Female	Totals	Male	Female	Percentage Attendance Efficiency
In Counties									
1 Barrie	AC	......	2	1	1	55	24	31	91.91
2 Beamsville	A.AGR.	......	......	4	3	22	17	5	82.77
3 Belleville	ACT	5	4	7	3	206	77	129	93.83
4 Brantford	ACT	10	7	12	6	553	239	314	94.46
5 Brockville	AC	1	1	5	3	66	25	41	92.11
6 Chatham	CT	8	8	......	1	463	216	247	94.97
7 Cornwall	AC	2	3	3	3	173	57	116	95.25
8 Fort Erie	ACT	1	2	......	......	174	88	86	95.28
9 Galt	ACT	8	5	3	5	265	136	129	93.86
10 Guelph	ACT	7	5	2	2	401	217	184	94.85
11 Hamilton—Technical	T	45	15	......	......	1,426	1,091	335	93.50
12 Commerce	COM.	13	19	......	......	1,022	231	791	95.30
13 Westdale	ACT	23	6	8	6	815	434	381	92.62
14 Kingston	ACT	13	7	......	......	656	338	318	94.20
15 Kitchener	ACT	12	6	5	4	586	293	293	95.39
16 London	CT	41	13	......	......	1,675	855	820	95.98
17 Napanee	AC	......	......	4	3	60	9	51	89.82
18 Niagara Falls	ACT	7	1	6	6	382	207	175	95.32
19 Oshawa	ACT	9	5	4	4	456	213	243	95.81
20 Ottawa—Technical	T	38	2	3	......	1,650	1,564	86	92.86
21 Commerce	COM.	24	18	......	......	1,312	293	1,019	94.40
22 Owen Sound	ACT	5	4	5	4	277	126	151	89.08
23 Pembroke	AC	......	1	4	2	118	43	75	93.71
24 Perth	AC	1	2	......	......	97	43	54	96.14
25 Peterborough	ACT	9	3	4	6	392	192	200	95.26
26 Picton	AC	......	2	3	3	66	21	45	93.33
27 Renfrew	ACT	1	3	3	3	138	82	56	92.56
28 Ridgetown	A.AGR.	......	......	4	7	75	29	46	96.09
29 St. Catharines	ACT	10	8	12	5	354	142	212	94.54
30 St. Thomas	CT	9	9	1	......	422	195	227	95.17
31 Sarnia	ACT	7	5	11	9	504	243	261	87.35
32 Scarborough	AC	2	5	4	5	151	44	107	96.37
33 Simcoe	AC	......	1	7	2	77	37	40	93.93
34 Stamford	ACT	2	2	4	2	245	135	110	96.93
35 Stratford	AC	......	2	5	3	191	85	106	96.74
36 Toronto—Central Technical	T	69	27	4	4	2,967	1,845	1,122	93.85
37 Danforth Technical	T	53	15	2	2	1,522	1,108	414	93.93
38 Northern Vocational	CT	52	27	2	4	2,730	1,191	1,539	85.40
39 Western Technical	CT	44	9	1	2	1,106	799	307	92.69
40 Central Commerce	COM.	31	17	......	......	1,772	396	1,376	95.79
41 Eastern Commerce	COM.	38	14	......	......	1,733	489	1,244	92.84
42 Western Commerce	COM.	26	10	......	......	1,165	297	868	92.03
43 Welland	ACT	7	5	5	7	520	274	246	95.84
44 Weston	ACT	11	7	2	2	419	246	173	92.97
45 Windsor-Walkerville	CT	21	43	......	......	1,806	1,040	766	97.36
46 Woodstock	AC	1	2	4	3	115	30	85	87.60
47 York East	AC	4	8	6	4	529	141	388	93.80
48 York North	AC	1	1	3	2	132	41	91	95.57
49 York Twp.—Runnymede	AC	2	1	3	2	136	26	110	90.28
50 Vaughan Road	AC	3	4	1	3	221	37	184	93.87
51 York Memorial	AC	3	2	4	3	220	54	166	94.59
Totals	......	679	368	171	139	32,618	16,055	16,563	93.45
In Districts									
1 Fort Frances	AC	2	7	2	1	155	67	88	96.97
2 Fort William	CT	18	12	......	......	726	354	372	88.93
3 Haileybury	AM	2	......	2	2	70	70	....	90.85
4 Kirkland Lake	ACT	12	8	1	......	194	105	89	92.93
5 North Bay	ACT	10	3	1	4	437	257	180	94.45
6 Port Arthur	CT	16	12	1	......	739	363	376	95.49
7 Sault Ste. Marie	CT	12	7	1	1	590	273	317	91.82
8 Sudbury	CT	13	9	......	......	495	263	232	91.82
9 Timmins	ACT	6	4	3	2	258	136	122	93.41
Totals	......	91	62	11	10	3,664	1,888	1,776	92.48
Grand Totals	......	770	430	182	149	36,282	17,943	18,339	93.34
Increases for the year	......	......	36	46	34	1,516	718	798	.55
Decreases for the year	......	22	......	......	......	....	....	....	....
Percentages	......	......	......	......	......	....	49.45	50.55	....

Type of school:—ACT —Composite (academic, commercial and technical.)
AC —Combined academic and commercial.
CT —Combined Vocational (commercial and technical.)
A. AGR.—Academic, and Vocational Agricultural School.
COM.—Commercial.
T —Technical.
N —Navigation.
AM —Academic, and Mining School.

SCHOOLS

ENROLMENT, ATTENDANCE, GRADE DISTRIBUTION, 1937-38

	Pupils													
	Full-Time May Enrolment				Grade Distribution of Full-Time Pupils							Complete Enrolment by Areas		
	Total	Male	Female	Average Daily Attendance	Pre-Vocational	Grade IX	Grade X	Grade XI	Grade XII	Grade XIII	Special	Resident	County or District	Non-Resident
1	55	24	31	50	......	....	30	25	......	......	......	39	16	.....
2	22	17	5	21	......	....	10	12	......	......	......	6	16	.....
3	206	77	129	182	......	....	118	43	6	......	39	165	33	8
4	553	239	314	561	7	231	135	131	49	......	......	435	107	11
5	66	25	41	68	......	....	31	18	17	......	......	55	11	.....
6	463	216	247	347	......	138	105	81	41	......	98	290	166	7
7	173	57	116	190	......	72	53	48	......	......	......	100	72	1
8	174	88	86	165	......	89	63	17	5	......	......	170	4	.....
9	265	136	129	268	......	102	83	48	6	......	26	194	52	19
10	401	217	184	350	......	180	76	.64	......	......	81	347	49	5
11	1,296	961	335	1,347	209	542	290	161	16	4	74	1,406	16	4
12	1,022	231	791	1,022	......	412	314	148	75	......	73	1,007	15	.....
13	815	434	381	817	37	337	239	102	47	......	53	769	44	2
14	645	336	309	617	......	378	157	79	......	......	31	479	175	2
15	586	293	293	655	......	148	253	115	18	......	52	519	63	4
16	1,675	855	820	1,376	141	532	415	196	118	11	262	1,360	302	13
17	60	9	51	54	......	....	20	19	......	......	21	24	32	4
18	382	207	175	361	......	154	122	106	......	......	......	356	15	11
19	456	213	243	480	......	223	140	93	......	......	......	384	63	9
20	1,536	1,493	43	1,257	47	486	382	282	191	34	114	1,431	207	12
21	1,312	293	1,019	1,332	......	478	388	321	125	......	......	1,271	41	.....
22	234	104	130	209	......	73	70	53	16	......	22	247	28	2
23	118	43	75	111	......	61	29	20	1	......	7	103	14	1
24	97	43	54	95	......	22	25	20	......	......	30	48	49	.....
25	392	192	200	373	......	152	137	72	3	28	......	293	95	4
26	60	20	40	63	......	....	40	20	......	......	......	36	30	.....
27	138	82	56	118	......	47	39	26	......	......	26	102	36	.....
28	75	29	46	75	......	40	18	14	3	......	......	28	46	1
29	352	140	212	367	......	....	177	86	55	......	34	283	70	1
30	422	195	227	435	......	141	117	75	45	......	44	302	115	5
31	504	243	261	529	......	219	134	95	56	......	......	373	131	.....
32	151	44	107	202	......	....	82	69	......	......	......	148	1	2
33	77	37	40	82	......	30	25	22	......	......	......	28	49	.....
34	245	135	110	240	......	39	86	55	65	......	......	149	52	44
35	191	85	106	196	......	85	50	25	......	......	31	175	13	3
36	2,453	1,745	708	2,453	153	970	563	342	208	124	93	2,867	40	60
37	1,522	1,108	414	1,537	22	619	478	255	129	16	3	1,450	69	3
38	2,324	1,067	1,257	1,922	74	742	507	313	209	73	406	2,663		67
39	1,106	799	307	1,021	97	422	297	155	100	20	15	1,078	......	28
40	1,704	375	1,329	1,500	......	595	470	299	134	29	177	1,766	......	6
41	1,733	489	1,244	1,710	......	745	485	269	136	......	98	1,732	......	1
42	1,165	297	868	1,084	......	498	298	142	69	......	158	1,161	......	4
43	508	265	243	441	......	172	202	108	14	......	12	268	252	.....
44	419	246	173	431	......	196	108	58	22	......	35	77	337	5
45	1,806	1,040	766	1,715	......	582	581	452	176	15	......	1,671	87	48
46	115	30	85	110	......	....	42	17	18	......	38	93	22	.....
47	529	141	388	530	......	219	141	55	40	......	74	524	5	.....
48	132	41	91	134	......	77	33	22	......	......	......	98	34	.....
49	136	26	110	130	......	....	35	40	22	......	39	118	17	1
50	221	37	184	238	......	....	118	51	15	......	37	199	21	1
51	197	48	149	199	......	....	118	37	19	......	23	220	......	.....
	31,289	'15,567	15,722	29,770	787	11,248	8,929	5,376	2,269	354	2,326	29,107	3,112	399
1	155	67	88	150	......	75	41	27	......	......	12	138	17	.....
2	726	354	372	713	......	358	163	96	109	......	......	646	......	80
3	70	70	....	72	......	24	29	10	7	......	......	30	38	2
4	194	105	89	195	......	84	66	38	6	......	......	187	......	7
5	432	252	180	367	......	144	155	95	......	......	38	359	57	21
6	739	363	376	622	......	209	229	175	117	9	......	699	40	.....
7	534	228	306	431	......	166	134	77	25	99	33	538	51	1
8	495	263	232	493	......	254	145	79	17	......	......	384	......	111
9	258	136	122	286	......	81	126	51	......	......	......	224	......	34
	3,603	1,838	1,765	3,329	......	1,395	1,088	648	281	108	83	3,205	203	256
	34,892	17,405	17,487	33,099	787	12,643	10,017	6,024	2,550	462	2,409	32,312	3,315	655
	1,483	660	823	2,162	......	....	1,064	784	480	19	209	1,288	116	112
	....	....	....	....	98	975	....	......	......	......	......	....	......	.....
	....	49.88	50.12	94.86	2.28	36.23	28.71	17.26	7.30	1.32	6.90	89.06	9.14	1.80

THE VOCATIONAL SCHOOLS

TABLE 40—AGE-GRADE DISTRIBUTION OF FULL-TIME DAY PUPILS, May 1938

		11 years	12 years	13 years	14 years	15 years	16 years	17 years	18 years	19 years	20 years	21 years and over	Totals	Grade Totals
PRE-VOCATIONAL........	Boys	....	3	19	64	194	211	72	13	4	1	....	581	787
	Girls	....	2	11	53	75	39	24	2	....	....	....	206	
GRADE IX..............	Boys	4	32	615	1,755	2,144	1,351	597	110	16	3	2	6,629	12,643
	Girls	3	66	796	1,883	1,826	1,093	275	68	3	....	1	6,014	
GRADE X...............	Boys	....	1	30	433	1,302	1,610	1,076	456	95	29	9	5,041	10,017
	Girls	....	3	63	635	1,633	1,530	765	284	48	8	7	4,976	
GRADE XI..............	Boys	....	....	1	34	292	829	855	560	240	59	47	2,917	6,024
	Girls	....	....	1	38	469	996	887	486	178	33	19	3,107	
GRADE XII.............	Boys	....	....	....	....	13	135	329	364	184	104	58	1,187	2,550
	Girls	....	....	1	....	26	220	408	381	178	82	67	1,363	
GRADE XIII............	Boys	....	....	....	....	3	5	47	75	50	31	26	237	462
	Girls	....	....	....	....	4	20	47	52	36	28	38	225	
SPECIAL................	Boys	....	....	....	....	....	63	149	214	176	117	94	813	2,409
	Girls	....	....	....	....	....	134	354	466	300	148	194	1,596	
TOTALS BY SEXES........	Boys	4	36	665	2,286	3,948	4,204	3,125	1,792	765	344	236	17,405	
	Girls	3	71	872	2,609	4,033	4,032	2,760	1,739	743	299	326	17,487	
GRAND TOTALS.............		7	107	1,537	4,895	7,981	8,236	5,885	3,531	1,508	643	562	34,892	

THE VOCATIONAL SCHOOLS

TABLE 41—DAY SCHOOLS—CLASSIFICATION OF STUDENTS BY SUBJECTS OF STUDY, 1937-38

SCHOOLS	English	Mathematics	Science	History and Civics	French	Draughting	Shopwork	Art and Design	Domestic Science	Domestic Arts	Commercial Work	Agriculture	Music
In Counties													
Barrie	55	55	30	......	18	....	......	......	.....	.....	55	....	......
Beamsville	22	22	22	22	......	7	17	......	5	5	22	22	......
Belleville	198	117	90	143	......	53	53	14	48	48	118	....	29
Brantford	553	474	427	342	21	180	218	88	209	209	326	....	74
Brockville	66	66	31	35	31	......	19	31	30	.....	66	....	......
Chatham	420	420	269	284	18	155	172	165	87	86	313	....	......
Cornwall	173	120	......	145	159	......	......	72	.....	.....	173	72	72
Fort Erie	174	89	89	131	111	79	79	......	73	.....	174	....	89
Galt	263	257	158	259	102	109	109	49	49	49	113	....	102
Guelph	370	401	221	168	......	157	157	84	120	120	260	....	218
Hamilton—													
Technical	1,404	1,391	1,104	1,365	102	1,025	1,062	1,013	334	388	920	....	133
Commerce	949	782	412	874	......	......	88	......	626	.....	1,022	....	......
Westdale	779	770	591	735	150	340	340	361	230	230	380	....	341
Kingston	625	555	456	611	369	327	327	345	242	242	200	....	379
Kitchener-Waterloo	516	340	238	470	......	215	208	142	328	.....	435	....	152
London	1,336	1,241	911	1,211	220	597	713	157	357	394	827	....	......
Napanee	60	19	......	20	......	......	......	20	.....	.....	60	....	......
Niagara Falls	382	382	382	122	154	100	177	154	77	.....	128	....	154
Oshawa	432	432	308	456	223	200	209	133	133	133	371	....	223
Ottawa—													
Technical	1,422	1,422	1,422	1,422	861	1,380	1,404	924	.....	.....	......	....	881
Commerce	1,312	356	755	1,279	844	......	......	589	676	676	1,312	....	757
Owen Sound	176	186	164	180	......	88	95	60	78	78	148	....	75
Pembroke	101	86	61	109	105	......	......	61	.....	.....	118	....	......
Perth	97	......	47	97	......	43	43	22	.....	.....	97	....	22
Peterborough	385	388	263	380	28	153	187	87	151	.....	134	....	......
Picton	52	19	22	30	......	......	......	30	.....	.....	62	....	......
Renfrew	107	69	33	60	......	......	31	......	.....	.....	117	31	......
Ridgetown	75	58	75	40	40	......	29	53	46	.....	18	75	......
St. Catharines	352	352	214	352	......	91	91	30	30	30	231	....	......
St. Thomas	335	388	313	398	19	195	195	125	129	129	135	61	141
Sarnia	504	504	378	353	166	224	224	155	155	155	343	....	219
Scarboro	148	119	75	136	49	......	......	15	.....	.....	151	....	......
Simcoe	77	69	25	48	......	23	37	30	36	36	.....	77	77
Stamford	218	272	80	157	26	80	80	......	.....	.....	175	83	48
Stratford	191	141	110	135	160	......	50	85	35	.....	106	....	135
Toronto—													
Central Technical	2,441	2,144	2,555	2,152	223	1,556	1,739	977	550	429	1,129	....	771
Danforth Technical	1,522	1,430	1,438	1,505	362	1,019	1,032	827	297	297	.....	....	709
Western Technical	1,140	1,108	1,046	999	283	739	736	589	267	249	531	....	524
Central Commerce	1,704	1,704	......	1,498	1,352	......	......	175	.....	.....	1,704	....	595
Eastern Commerce	1,733	1,443	1,346	1,636	1,595	......	......	748	.....	.....	1,733	....	748
Western Commerce	1,151	959	839	1,095	390	......	110	113	333	.....	1,165	....	191
North'n Vocational	2,324	1,902	1,965	1,965	1,365	325	463	1,077	405	405	1,515	....	689
Welland	496	372	461	449	......	186	223	33	153	36	164	....	374
Weston	374	407	364	397	......	215	226	107	119	119	152	....	374
Windsor	1,991	1,484	1,114	1,505	454	915	924	166	118	236	734	....	229
Woodstock	70	115	42	70	60	......	......	......	.....	25	115	....	......
York East	491	388	314	474	455	......	......	......	.....	.....	529	....	255
York North	132	99	110	132	77	......	......	77	.....	.....	132	....	110
York Twp.—													
Runnymede	136	101	35	75	......	......	......	......	.....	.....	136	....	......
Vaughan Road	221	88	118	184	184	......	......	......	.....	.....	221	....	......
York Memorial	174	60	......	118	174	......	......	......	.....	.....	197	....	......
Totals	30,429	26,166	21,523	26,823	10,950	10,776	11.867	9,983	6,526	4,804	18,347	421	9,890
In Districts													
Fort Frances	143	148	92	112	......	......	48	37	27	.....	73	....	......
Fort William	735	751	402	740	27	282	281	227	260	260	340	....	592
Haileybury	59	61	70	46	23	63	......	......	.....	.....	.....	....	......
Kirkland Lake	192	137	120	178	......	96	102	......	88	.....	155	....	......
North Bay	432	356	290	430	144	205	240	169	124	29	287	....	......
Port Arthur	708	606	708	730	175	290	302	240	197	197	278	....	471
Sault Ste. Marie	501	407	267	372	106	201	219	54	125	125	343	....	172
Sudbury	495	495	378	445	180	229	212	......	136	.....	245	....	232
Timmins	274	274	185	245	.....	128	128	......	57	57	89	....	84
Totals	3,539	3,235	2,512	3,298	655	1,494	1,532	727	1,014	668	1,810	....	1,551
Grand Totals	33,968	29,401	24,035	30,121	11,605	12,270	13,399	10,710	7,540	5,472	20,157	421	11,441

THE VOCATIONAL SCHOOLS

TABLE 42—FINANCIAL STATISTICS, DAY SCHOOLS, 1937

Schools	Average Daily Attendance [A]	Major Sources of Receipts			Disbursements		Cost per Pupil-Day (cents)			Debenture Indebtedness (Including any Arrears)	
		Legislative Grants [H]	County Grant	School District Levy [B]	Current	Capital	Current	Capital	Total	Amount	Per $1,000 of Equalized Assessment
In Counties		$	$	$	$	$				$	$ c
Barrie	57	627	1,807	3,643	5,806	....	58.9	.....	58.9	C	......
Beamsville	52	2,352	4,794	2,672	6,529	1,591	64.4	15.4	79.8	C	......
Belleville	297	17,642	....	3,275	40,176	12,602	68.7	21.4	90.1	236,850	22.35
Brantford	595	14,633	....	43,889	51,108	12,165	44.3	10.5	54.8	C	......
Brockville	37	1,395	....	7,400	8,464	....	128.8	.....	128.8	C	......
Chatham	332	16,804	9,963	39,370	46,833	19,012	76.7	31.1	107.8	38,024	2.65
Cornwall	184	1,202	7,125	9,500	16,135	....	50.1	.....	50.1	C	......
Fort Erie	97	1,164	7,001	8,018	9,454	D	49.5	D	.....	73,278	15.74
Galt	261	32,259	5,953	28,300	37,709	29,743	77.7	61.2	138.9	157,551	14.30
Guelph	370	17,587	....	39,093	40,603	20,762	109.2	55.8	165.0	C	......
Hamilton(3)	3,155	88,480	....	498,218	394,784	207,294	71.2	36.4	107.6	1,816,142	11.03
Kingston	341	18,029	....	43,568	50,655	23,963	70.4	33.3	103.7	366,803	19.33
Kitchener-Waterloo	671	18,957	....	59,130	68,683	14,246	54.7	11.3	66.0	138,088	4.06
London	1,299	33,882	....	152,902	169,837	41,251	71.0	17.2	88.2	294,709	3.60
Napanee	96	772	4,771	4,887	8,881	1,169	53.6	7.0	60.6	C	......
Niagara Falls	387	7,388	3,583	54,990	43,785	E13,726	57.6	18.1	75.7	45,834	56.80
Oshawa	471	20,173	....	42,134	48,935	25,442	54.4	28.3	82.7	C	......
Ottawa(2)	2,339	30,719	....	263,852	279,424	51,207	61.9	11.4	73.3	532,636	3.48
Owen Sound	247	14,469	3,767	41,742	33,270	21,438	82.3	53.0	135.3	C	......
Pembroke	78	607	2,811	4,262	9,118	....	45.3	.....	45.3	C	......
Perth	66	699	2,472	3,508	6,857	929	52.8	7.2	60.0	7,408	4.14
Peterborough	411	19,311	....	53,914	56,603	23,300	73.1	30.1	103.2	298,000	12.25
Picton	93	743	1,608	6,529	8,857	....	48.5	.....	48.5	C	......
Renfrew	113	6,313	3,804	9,738	14,778	4,806	76.9	25.0	101.9	50,482	15.51
Ridgetown	68	3,948	5,652	2,954	11,831	....	93.4	.....	93.4	....	......
St. Catharines	543	10,630	10,163	61,822	66,945	19,114	65.9	18.8	84.7	C	......
St. Thomas	433	17,773	11,574	60,558	58,501	19,558	73.7	24.6	98.3	212,002	13.93
Sarnia	529	10,337	10,517	54,510	63,995	17,378	66.1	18.0	84.1	39,933	2.15
Scarborough	209	1,536	8,770	12,536	19,392	....	51.1	.....	51.1	C	......
Simcoe	90	3,480	3,107	4,924	10,571	1,532	65.7	9.5	75.2	C	......
Stamford	227	4,822	10,578	9,988	26,722	6,275	60.0	14.0	74.0	C	......
Stratford	187	1,289	954	17,683	15,113	3,037	45.8	9.2	55.0	C	......
Toronto(6)	10,197	305,711	....	1,948,744	1,762,590	398,109	102.2	23.1	125.3	5,229,683	5.37
Welland	458	15,157	....	39,042	54,752	13,099	58.4	13.9	72.3	204,947	20.81
Weston	448	10,357	38,708	6,733	49,701	F3,754	75.0	5.6	80.6	C	......
Windsor	1,754	25,028	....	175,373	195,938	F9,398	59.1	2.8	61.9	G	......
Woodstock	146	1,013	2,407	13,953	17,236	....	62.9	.....	62.9	C	......
York East	496	3,467	23,740	25,506	44,648	F7,477	55.5	9.3	64.8	C	......
York North	81	563	6,225	10,118	8,442	10,364	52.6	6.5	59.1	62,252	14.95
York Township(3)	771	6,197	49,087	37,963	71,085	21,672	57.4	17.5	74.9	C	......
Totals and Averages	28,686	787,515	240,941	3,906,941	3,934,752	1,055,413	76.9	20.6	97.5	K9,804,622	......
In Districts											
Fort Frances	148	4,640	....	16,703	13,712	7,583	49.8	27.5	77.3	C	......
Fort William	651	38,321	....	97,600	87,924	45,606	69.2	35.9	105.1	520,242	18.12
Haileybury	69	13,190	....	3,899	9,596	3,996	71.0	29.6	100.6	49,161	37.53
Kirkland Lake	201	8,603	....	27,475	25,298	3,923	67.6	10.5	78.1	C	......
North Bay	312	25,169	....	33,977	39,405	21,228	64.0	34.4	98.4	284,435	29.89
Port Arthur	602	36,164	....	75,787	76,013	33,569	66.6	29.4	96.0	405,719	15.41
Sault Ste. Marie	489	19,728	....	53,329	45,031	27,210	47.0	28.4	75.4	193,900	10.19
Sudbury	525	25,763	....	42,559	58,215	17,470	57.9	17.3	75.2	153,722	11.51
Timmins	282	19,883	....	32,858	39,950	11,766	72.0	21.2	93.2	141,509	17.41
Totals and Averages	3,279	191,461	....	384,187	395,144	172,351	62.4	27.2	89.6	K1,748,688	......
Grand Totals and Averages	31,965	978,976	240,941	4,291,128	4,329,896	1,227,764	75.3	21.3	96.6	K11,553,310	......

A Average Daily Attendance for the calendar year.

B Includes Debenture

C Combined Debt. See High School Financial Table.

D In default.

E In addition, $24,455 was paid on arrears.

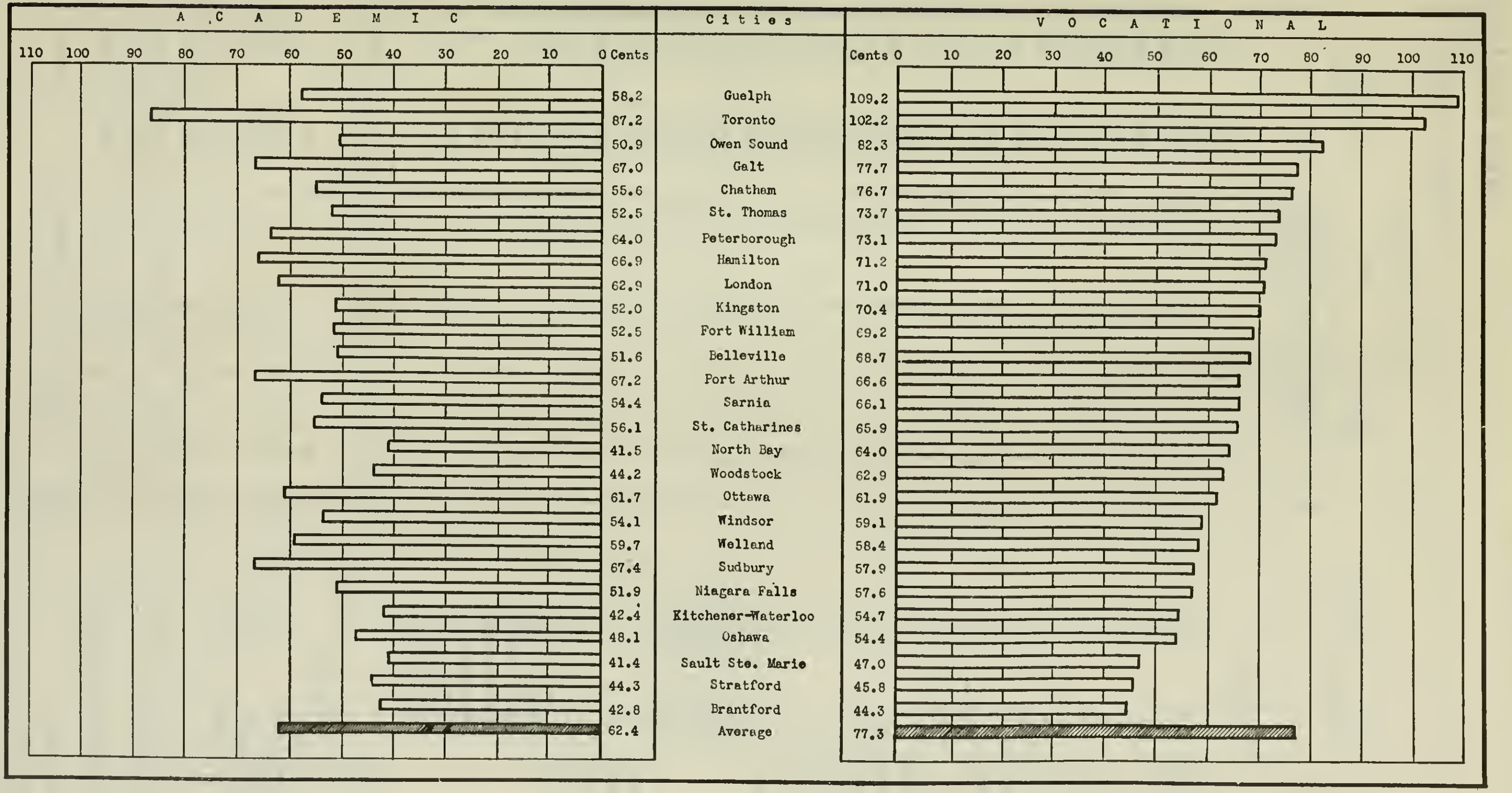
F Partial payment.

G Not reported

H Including grants on Capital Charges.

K Total of Vocational Schools in separate buildings, and vocational portion of composite schools where indebtedness has been divided between High and Vocational.

CURRENT EXPENSE PER PUPIL-DAY, FOR ACADEMIC AND VOCATIONAL SECONDARY SCHOOLS IN CITIES, 1937



Graph 7.

THE VOCATIONAL

TABLE 43—

Schools	Teachers				Students		
	Male		Female		Enrolment		
	Total	No. who taught in Day School	Total	No. who taught in Day School	Total	Male	Female
(Counties)							
1 Barrie	4	2	3	3	90	23	67
2 Belleville	10	8	7	6	897	519	378
3 Brantford	8	8	6	5	674	425	249
4 Chatham	8	7	3	2	412	266	146
5 Galt	10	3	1	1	276	224	52
6 Kingston	8	7	2	2	481	245	236
7 Kitchener	11	6	6	5	603	389	214
8 London	26	21	9	5	1,142	653	489
9 Napanee	4	2	4	1	92	61	31
10 New Toronto	3	3	3	2	204	73	131
11 Niagara Falls	7	6	5	2	407	270	137
12 Oshawa	16	14	10	4	1,048	676	372
13 Ottawa—Technical	26	15	14	2	1,677	1,031	646
Commercial	17	16	6	4	1,141	318	823
15 Owen Sound	7	6	5	5	344	174	170
16 Pembroke	9	4	5	2	289	89	200
17 Peterborough	20	12	6	2	855	504	351
18 Renfrew	......	....	3	3	85	14	71
19 St. Catharines	11	11	6	2	537	341	196
20 St. Thomas	7	7	2	2	289	192	97
21 Sarnia	13	12	4	4	507	298	209
22 Stratford	9	7	5	2	475	273	202
23 Toronto—Central Technical	92	57	33	6	3,924	2,349	1,575
24 Danforth Technical	54	41	26	6	2,391	1,321	1,070
25 Western Vocational	46	42	18	5	1,891	1,061	830
26 Northern Vocational	62	50	31	15	2,788	1,188	1,600
27 Central Commerce	29	22	5	4	1,374	615	759
28 Eastern Commerce	26	24	1	....	1,412	680	732
29 Welland	9	7	5	1	603	376	227
30 Weston	9	8	8	7	404	245	159
31 Windsor	43	32	10	9	1,504	1,098	406
32 York, East	3	3	....	....	94	60	34
33 York Twp.—Runnymede	1	1	2	1	96	45	51
34 Vaughan Road	2	2	3	3	212	88	124
35 York Memorial	3	3	2	2	108	58	50
36 †Humbercrest	....	....	3	2	55	....	55
37 †Humewood	1	....	2	1	69	2	67
38 †Rawlinson	2	2	3	....	123	43	80
39 †Silverthorn	....	....	1	....	28	....	28
40 †Warren Park	1	1	....	....	18	18	....
Totals	617	472	268	128	29,619	16,305	13,314
(Districts)							
1 Fort William	22	12	12	8	810	493	317
2 Kirkland Lake	10	5	2	1	310	234	76
3 North Bay	6	5	5	3	259	112	147
4 Port Arthur	18	11	11	7	463	250	213
5 Sault Ste. Marie	7	6	3	3	419	255	164
Totals	63	39	33	22	2,261	1,344	917
Grand Totals	680	511	301	150	31,880	17,649	14,231
Increases for the Year	118	78	55	31	6,130	4,647	1,483
Percentages	....	75.15	....	49.83	....	55.36	44.64

†Evening vocational classes held in public schools.

SCHOOLS

NIGHT SCHOOLS, 1937-38

	Students						Aggregate Student Hours Attendance	No. of Nights School was Open	No. of Classes
	Beginners			Nationality					
	Total	Male	Female	Canadian	British	Others			
1	70	15	55	85	3	2	6,232	46	6
2	886	514	372	805	81	11	35,100	43	33
3	573	361	212	570	37	67	37,880	86	12
4	260	161	99	250	126	36	17,988	45	11
5	195	161	34	216	48	12	9,306	80	10
6	367	181	186	406	66	9	10,782	45	10
7	326	218	108	514	15	74	25,559	66	30
8	872	478	394	927	148	67	52,346	78	37
9	57	32	25	90	2	....	5,428	44	9
10	196	68	128	166	29	9	....	34	5
11	277	181	96	299	56	52	12,232	39	15
12	921	584	337	813	121	114	51,303	44	40
13	825	349	476	1,456	159	62	67,267	97	52
14	877	262	615	1,046	62	33	44,826	94	49
15	239	125	114	329	15	....	12,560	48	18
16	131	49	82	285	2	2	....	44	14
17	527	287	240	784	56	15	34,722	106	38
18	66	10	56	85	....	....	5,836	57	8
19	336	219	117	414	76	47	24,181	109	30
20	150	85	65	239	32	18	13,790	42	11
21	334	189	145	433	44	30	19,648	45	23
22	329	179	150	423	38	14	17,567	83	28
23	2,155	1,249	906	2,735	605	584	187,304	112	212
24	No	record	kept	1,831	493	67	104,494	112	106
25	1,251	692	559	1,641	179	71	81,024	90	93
26	1,687	743	944	2,373	328	87	118,058	85	137
27	957	412	545	1,152	114	108	53,279	90	64
28	967	447	520	1,214	166	32	....	90	54
29	383	239	144	476	39	88	25,736	43	26
30	226	139	87	351	43	10	14,115	39	31
31	1,192	893	299	1,040	204	260	72,086	90	50
32	81	53	28	79	15	....	5,126	47	6
33	55	25	30	84	11	1	4,268	44	6
34	187	69	188	173	29	10	8,608	44	10
35	101	52	49	95	11	2	12,064	44	4
36	....	....	....	50	3	2	4,652	61	3
37	....	....	....	49	20	....	4,536	63	3
38	....	....	....	84	31	8	9,868	83	7
39	....	....	....	22	6	....	1,344	24	1
40	....	....	....	16	2	....	1,476	41	1
	18,056	9,721	8,405	24,100	3,515	2,004	1,212,591	....	1,303
1	588	350	238	685	70	55	34,903	58	37
2	291	221	70	254	30	26	14,095	50	15
3	184	82	102	231	22	6	13,298	40	11
4	324	169	155	368	44	51	25,081	81	33
5	352	208	144	371	25	23	10,276	38	10
	1,739	1,030	709	1,909	191	161	97,653	....	106
	19,795	10,751	9,114	26,009	3,706	2,165	1,310,244	....	1,409
	4,434	2,788	1,716	5,339	435	356	294,803	....	223
	*62.09	54.31	45.69	81.58	11.62	6.80	....	....	....

*Of Total Enrolment.

THE VOCATIONAL SCHOOLS

TABLE 44—NIGHT SCHOOLS—Classification of Pupils by Subjects of Study, 1937-38

I. ACADEMIC

A—CULTURAL

1. English for New Canadians	200
2. Reading	272
3. Literature	250
4. Composition and Spelling	639
5. Grammar	206
6. Public Speaking	107
7. History and Civics	11
8. Current Events	32
9. French	306
10. Orchestral Music	11
11. Dramatic Art	74

B—PRACTICAL

1. Arithmetic	613
2. Algebra	382
3. Geometry	251
4. Trigonometry	120
5. Mensuration	108
6. Shop Mathematics	415

II. VOCATIONAL AND INDUSTRIAL

A—DOMESTIC ARTS

1. Cooking	2,905
2. Hygiene and Dietetics	185
3. Home Nursing	241
4. Home Economics	91
5. Drafting and Design (Clothing)	207
6. Sewing and Dressmaking	4,052
7. Millinery	313
8. Textiles	34
9. Embroidery and Lace-Making	9
10. Knitting	34
11. Appreciation of Dress	58
12. Period Furniture	58
13. Household Accessories	97

B—COMMERCE

1. Writing	352
2. Stenography	4,696
3. Typewriting	5,881
4. Business English	107
5. Journalism	42
6. Rapid Calculation	27
7. Business Machines	591
8. Business Forms	376
9. Filing	35
10. Office Routine	183
11. Book-keeping	2,132
12. Accounting	40
13. Business Management	50
14. Advertising	223
15. Salesmanship	187
16. Insurance	735
17. Economics	22
18. Commercial Law	49

C—ART, DRAFTING AND DESIGN

(a) Pure Art

1. History of Art	79
2. Elementary Art	64
3. Elementary Drawing and Design	74
4. Colour Study	510
5. Still Life Drawing	139
6. Life Drawing	322
7. Modelling	57
8. Perspective	61
9. Antique Drawing	155

(b) Applied Art

1. Illustrating	204
2. Lettering and Show Cards	378
3. Interior Decorating	392
4. Costume Drawing and Design	200
5. Block Printing	7

(c) Industrial Drafting and Design

1. Mechanical Drawing	1,075
2. Industrial Design	221
3. Blue Print Reading	184
4. Architectural Drawing	282
5. Electrical Drawing	18
6. Machine Drawing and Design	252
7. Tool Design	29
8. Sheet Metal Drawing	185
9. Watchmaker's Drafting	12

D—CRAFTS

1. Handicrafts	86
2. Woodcarving	17
3. Cabinet Making	168
4. Pottery	36
5. Rug Making	58
6. Art Metal Work	37
7. Printing	244
8. Watch Making	40
9. Pattern Making	40

E—SCIENCE AND ENGINEERING

(a) Science

1. Chemistry	331
2. Industrial Chemistry	218
3. Chemistry for Nurses	39
4. Photography	88
5. Mineralogy and Geology	21
6. Metallurgy and Assaying	67
7. Applied Mechanics	6
8. Electricity	757

(b) Engineering

1. Marine	30
2. Heating and Ventilating	12
3. Refrigeration and Air Conditioning	49
4. Aviation	26
5. Diesel Engines	141
6. Prospecting	18

F—TRADES AND INDUSTRY

1. General Woodworking	594
2. Carpentry and Building	369
3. Painting and House Decorating	106
4. Machine Shop Work	1,676
5. Plumbing	350
6. Acetylene Welding	886
7. Auto Mechanics	1,383
8. Air Craft	655
9. Electric Wiring	478
10. Electric Construction	57
11. Radio (Construction and Repairs)	298
12. Glove Making	31
13. Yarn Making	29

III. MISCELLANEOUS

1. First Aid	108
2. Swimming	560
3. Gymnasium	881
4. Lip Reading	32

THE SENIOR AUXILIARY SCHOOLS

TABLE 45—SCHOOLS, TEACHERS, PUPILS, ETC., 1937-38

Schools	Full-Time Teachers		Full-Time Enrolment		Average Daily Attendance	Attendance Efficiency Percentage	Year Classification of Full-Time Enrolment					Part-Time Enrolment	Beginners admitted during the year	Retirements during the Year while in				
	Male	Female	Male	Female			1st year	2nd year	3rd year	4th year	5th year			1st year	2nd year	3rd year	4th year	5th year
Hamilton—Boys' Handicraft	10	1	242	......	216	85.61	131	100	11	.....	.....	......	125	50	64	6	......	......
Girls' "	....	6	....	92	80	87.43	45	36	10	1	.....	......	54	11	25	19	......	......
Toronto—Boys' Senior Auxiliary	25	......	587	......	502	87.77	249	177	121	30	10	3	260	33	59	110	24	10
Girls' " " (Groves)	....	15	....	294	259	89.44	86	102	101	4	1	14	133	5	......	76	......	......
Girls' " " (Bolton)	....	11	....	234	177	83.40	101	74	59	.....	.....	......	129	......	......	165	......	......
Totals	35	33	829	620	1,234	87.19	612	489	302	35	11	17	701	99	148	376	24	10

TABLE 46—AGE-GRADE DISTRIBUTION OF FULL-TIME PUPILS, MAY, 1938

		11 Years	12 Years	13 Years	14 Years	15 Years	16 Years	17 Years	18 Years	19 Years	20 Years	21 and Over	Totals	Year Totals
First Year	Boys	....	9	136	150	77	6	2	....	....	....	....	380	612
	Girls	....	11	97	78	36	10	....	....	....	....	....	232	
Second Year	Boys	....	....	2	85	121	61	7	1	....	....	....	277	489
	Girls	....	....	9	118	71	12	2	....	....	....	....	212	
Third Year	Boys	....	....	....	10	82	30	7	1	1	....	1	132	302
	Girls	....	....	6	59	74	26	5	....	....	....	....	170	
Fourth Year	Boys	....	....	....	1	14	9	3	....	....	....	3	30	35
	Girls	....	....	....	....	....	3	2	....	....	....	....	5	
Fifth Year	Boys	....	....	....	....	....	1	5	....	2	1	1	10	11
	Girls	....	....	....	....	....	....	....	1	....	....	....	1	
Totals by Sexes	Boys	....	9	138	246	294	107	24	2	3	1	5	829	
	Girls	....	11	112	255	181	51	9	1	....	....	....	620	
Grand Totals		....	20	250	501	475	158	33	3	3	1	5	1,449	

TABLE 47—FINANCIAL STATISTICS, 1937

Schools	Average Daily Attendance	Major Items of Receipts		Disbursements		Cost per Pupil-Day (Cents)			Debenture Indebtedness
		Legislative Grant	School District Levy	Current	Capital	Current	Capital	Total	Total
Hamilton—Boys' Handicraft	216	4,954	25,325	33,141	79	77.1	.1	77.2	....
Girls' "	80	2,211	9,945	13,989	126	77.5	.7	78.2	....
Toronto—Boys' Senior Auxiliary	502	22,078	91,736	102,435	13,356	119.8	15.6	135.4	125,886
Girls' Senior Auxiliary (Groves)	259	7,649	43,504	56,683	162	135.1	3.8	138.9	2,159
Girls' Senior Auxiliary (Bolton)	177	5,856	43,502	43,053	9,320	130.3	28.2	158.5	49,947
Totals and Averages	1,234	42,748	214,012	249,301	23,043	112.5	10.4	122.9	177,992

TABLE 48—Professional Certificates Issued by the Department of Education during the Calendar Year 1938

A—General

Training Schools	Classification of Certificates										Grand Totals
	Public and Separate School				High School		Vocational School				
	*First Class		Second Class		Interim Assistant	Permanent Assistant	Interim		Permanent		
	Interim	Perm.	Interim	Perm.			Ordinary	Specialist	Ordinary	Specialist	
Ontario College of Education	27				295						322
Normal Schools	1138		149								1,287
Ontario Technical Training College							19	9	17	7	52
Interim Certificates Issued	1,165		149		295		19	9			1,637
Interim Certificates Made Permanent		960		242		402			17	7	1 628
Total Number of Certificates Issued	1,165	960	149	242	295	402	19	9	17	7	3,265

*Valid in Continuation Schools also, under certain conditions.

5 Vocational Principals' certificates and 1 provisional certificate were granted, in addition to the above Ordinary and Specialist.

B—Special

(1) One-Year Course

Subject	Elementary		Intermediate		Specialist	
	Int.	Perm.	Int.	Perm.	Int.	Perm.
Household Science			23	6		
Manual Training			22	2		10
*Art	23					
*Physical Culture	52					
*Vocal Music	35					

Kindergarten 18, taken at the Toronto Normal School.

*Taken at the Ontario College of Education.

(2) Summer School

Subject	Elementary	Intermediate & Supervisor	Specialist
Agriculture and Horticulture	509	110	20
Art	161	68	28
Commercial Subjects	38	46	33
Music—Vocal	503	246	135
—Instrumental	133	32	10
Physical Culture	62	33	50
Manual Training	204		
Household Science	233		

Auxiliary Class	164	Kindergarten-Primary	106
Education	1,213	Oral French	31
Farm Mechanics	26	Provisional High School Assistant	37
Health Teaching	305		

Note 1.—In addition to the above, 72 Interim certificates in Elementary, Agriculture and Horticulture, 1 in Elementary Physical Culture, 1 in Elementary Art, and 2 in Intermediate Household Science and 1 in Elementary Vocal Music were granted on pro tanto standing.

Note 2.—During the year 90 High School Principals' Certificates, were granted, and the following interim certificates in various subjects were made permanent:—580 Elementary, 97 Intermediate and Supervisors', 31 Auxiliary Class, and 52 Kindergarten-Primary.

C—Temporary

R.C. Separate Inspectorates.—Divisions—II, 4; III, 13; IV, 4; V, 2; VII, 1; XVIII, 3; XIX, 2; XX, 5; XXI, 2; XXII, 5.
Public District Inspectorates—Division VI, Part II, 1; IX, 1; XII, Part III, 5.
Public County Inspectorates—Simcoe North 1; Prescott and Russell III, 1; Prescott and Russel IV, 1. Total Temporary Certificates, 42.

TABLE 49—CLASSIFICATION OF SCHOOL CENTRES BY COUNTIES AND DISTRICTS, SEPT. 1938

The type of Secondary Schools is shown thus: Collegiate Institute (CI); High School (H); Continuation School (C); Technical School (T); Commercial School (Com); Composite (academic, commercial and technical) (ACT); Combined academic and commercial (AC); Combined Vocational (commercial and technical) (CT); Combined academic and vocational agriculture (A. Agr.); Combined academic and mining school (AM).
Senior Auxiliary Schools shown thus: (SA); Navigation Schools shown thus: (N).

COUNTIES	CITIES	TOWNS	INCORPORATED VILLAGES	OTHER CENTRES WHERE SECONDARY SCHOOLS ARE LOCATED
Brant	Brantford (ACT)	Paris (H)		Burford (H), Mount Pleasant (C), St. George (C), Scotland (C)
Bruce		Chesley (H). Kincardine (H), Southampton (C), Walkerton(H), Wiarton (H).	Hepworth (C), Lion's Head (C), Lucknow (H), Mildmay, Paisley (C), Port Elgin (H), Ripley (C), Tara (C), Teeswater (C), Tiverton (C)	Allenford (C).
Carleton	Ottawa (2 CI) (T) (Com.)	Eastview	Richmond (C), Rockliffe	Bowesville (C), Carp (C), Fitzroy Harbour (C), Jockvale (C), Kars (C), Kenmore (C), Kinburn (C), Manotick (C), Metcalfe (C), Nepean (H), North Gower (C), Pierce's Corners*(C)
Dufferin		Orangeville (H)	Grand Valley (C), Shelburne (H)	Honeywood (C), Laurel (C)
Dundas			Chesterville (H), Iroquois (H), Morrisburg (C.I.), Winchester (H)	Hallville (C) Morewood (H), South Mountain (C)
Durham		Bowmanville (H) Port Hope (H)	Millbrook (C), Newcastle (H)	Bethany (C), Blackstock (C), Orono (C)
Elgin	St. Thomas (CI) (CT)	Aylmer (H)	Dutton (H), Port Stanley, Rodney (C), Springfield (C), Vienna (H). West Lorne (C)	Belmont (C) Fingal (C), Port Burwell (C), Sparta (C)
Essex	Windsor (4 CI) (CT)	Amherstburg (H), Essex (H), Harrow (H), Kingsville (H), La Salle, Leamington (H), Riverside, Tecumseh.	Belle River, St. Clair Beach	Comber (C), Pelee Island (C)
Frontenac	Kingston (CT) (N)		Portsmouth	Sydenham (H), Wolfe Island (C)
Glengarry		Alexandria (H)	Lancaster, Maxville (H)	Williamstown (H)
Grenville		Prescott (H)	Cardinal (C), Kemptville (H). Merrickville (C)	North Augusta (C), Spencerville (C)
Grey	Owen Sound (ACT)	Durham (H), Hanover (H), Meaford (H), Thornbury (C)	Chatsworth (C), Dundalk (H), Flesherton (H), Markdale (H), Neustadt, Shallow Lake	Feversham (C), Holstein (C)
Haldimand		Dunnville (H)	Caledonia (H), Cayuga (H), Hagersville (H), Jarvis (C)	Selkirk (C)
Haliburton				Haliburton (C), Minden (C), Wilberforce (C)
Halton		Burlington (H), Georgetown (H), Milton (H), Oakville (H)	Acton (C)	

*Malakoff Continuation School

TABLE 49—CLASSIFICATION OF SCHOOL CENTRES BY COUNTIES AND DISTRICTS, SEPT. 1938

COUNTIES	CITIES	TOWNS	INCORPORATED VILLAGES	OTHER CENTRES WHERE SECONDARY SCHOOLS ARE LOCATED
Hastings	Belleville (ACT)	Deseronto (H), Trenton (H)	Bancroft (C), Deloro, Frankford (C), Madoc (H), Marmora (H) Stirling (H), Tweed (H)	
Huron		Clinton (C.I.), Goderich (CI), Seaforth (CI), Wingham (H)	Blyth (C), Brussels (C), Exeter (H), Hensall (C)	Fordwich (C), Wroxeter (C)
Kent	Chatham (CI) (CT)	Blenheim (H), Bothwell (C), Dresden (C), Ridgetown (A.Agr.), Tilbury (H), Wallaceburg (H)	Erieau, Highgate (C), Thamesville (C), Wheatley (C)	Merlin (C), Paincourt (C)
Lambton	Sarnia (ACT)	Forest (H), Petrolia (H)	Alvinston (C), Arkona (C) Courtright, Oil Springs (C), Point Edward, Thedford (C), Watford (H), Wyoming (C)	Florence (C)
Lanark		Almonte (H), Carleton Place (H), Perth (AC), Smith's Falls (CI)	Lanark (C)	Pakenham (C)
Leeds		Brockville (AC), Gananoque (H)	Athens (H), Newboro, Westport (2C)	Delta (C), Elgin (C), Lansdowne (C), Lyndhurst (C), Mallorytown (C), Seely's Bay (C)
Lennox and Addington		Napanee (AC)	Bath (C), Newburgh (H)	Denbigh (C), Flinton (C), Odessa (C), Stella (C), Tamworth (C)
Lincoln	St. Catharines (ACT)	Grimsby (H), Merriton (H), Niagara (H)	Beamsville (A.Agr.), Port Dalhousie	Smithville (H)
Middlesex	London (3 CI) (CT)	Parkhill (H), Strathroy (CI)	Ailsa Craig (C), Glencoe (H), Lucan (H), Newbury, Wardsville (H)	Delaware (C), Dorchester (C), Ilderton (C) Lambeth (C), Lobo (C), Melbourne (C), Mt. Bridges (C), Thorndale (C)
Norfolk		Simcoe (ACT)	Delhi (C), Port Dover (H), Port Rowan (H), Waterford (H)	
Northumberland		Campbellford (H), Cobourg (CI)	Brighton (H), Colborne (H), Hastings	Castleton (C), Warkworth (C) Wooler (C)
Ontario	Oshawa (ACT)	Whitby (H), Uxbridge (H)	Beaverton (C), Cannington (C), Port Perry (H)	Brooklin (C), Claremont (C), Pickering (C), Sunderland (C)
Oxford	Woodstock (AC)	Ingersoll (CI), Tillsonburg (H)	Embro (C), Norwich (H), Tavistock (C)	Brownsville (C), Burgessville (C), Drumbo (C), Mt. Elgin (C), Otterville (C), Plattsville (C), Princeton (C), Thamesford (C)
Peel		Brampton (H)	Bolton (C), Port Credit (H), Streetsville (H)	Alton (C), Caledon East (C), Cooksville (C), Inglewood (C)
Perth	Stratford (AC)	Listowel (H), Mitchell (H), St. Mary's (CI)	Milverton (C)	
Peterborough	Peterborough (ACT)		Havelock (H), Lakefield (H), Norwood (H)	Ennismore (C)

TABLE 49—CLASSIFICATION OF SCHOOL CENTRES BY COUNTIES AND DISTRICTS, SEPT. 1938

COUNTIES	CITIES	TOWNS	INCORPORATED VILLAGES	OTHER CENTRES WHERE SECONDARY SCHOOLS ARE LOCATED
Prescott		Hawkesbury (2H), Vankleek Hill (CI)	L'Original	Plantagenet (H)
Prince Edward		Picton (AC)	Bloomfield, Wellington (C)	Consecon (C)
Renfrew		Arnprior (H), Pembroke (AC), Renfrew (ACT)	Barry's Bay, Braeside. Cobden (C) Eganville (2C), Killaloe	Beachburg (C), Chalk River (C), Forester's Falls (C). Westmeath (C)
Russell		Rockland (H)	Casselman	Cumberland (C), Embrun (H), Navan (C), Russell (C)
Simcoe		Alliston (H), Barrie (AC), Collingwood (C.I.), (N), Midland (H) (N), Orillia (CI), Penetanguishene (H), Stayner (C)	Beeton (C), Bradford (H), Coldwater (C), Creemore (C), Port McNicoll, Tottenham (C), Victoria Harbour	Cookstown (C), Elmvale (C), Lefroy (C), Minesing (C), Severn Bridge (C), Singhampton (C), Thornton (C),
Stormont		Cornwall (AC)	Finch (H)	Aultsville (C), Avonmore (H), Wales (C)
Victoria		Lindsay (C.I.)	Bobcaygeon (C), Fenelon Falls (C), Omemee (H), Woodville (C)	Kinmount (C), Little Britain (C)
Waterloo	Galt (A C T). Kitchener (ACT)	Elmira (H), Hespeler, Preston, (C), Waterloo	Ayr (C), New Hamburg (C)	New Dundee (C), Wellesley (C),
Welland	Niagara Falls (ACT) Welland (ACT)	Fort Erie (AC), Port Colborne (H), Thorold (H)	Chippawa, Fonthill. Humberstone	Pelham (C). Ridgeway (H), Stevensville (C), Stamford (AC)
Wellington	Guelph (ACT)	Harriston (H), Mount Forest (H), Palmerston (C)	Arthur (H), Clifford (C), Drayton (C), Elora (H), Erin (C), Fergus (H)	Rockwood (C)
Wentworth	Hamilton (2CI), (Com.), (T), (2 SA), (ACT)	Dundas (H)	Waterdown (H), Stoney Creek (H)	Lynden (C)
York	Toronto (10 CI), (3 SA), (2 T) (2 CT), (2 Com.)	Aurora (H), Leaside, Mimico (H), Newmarket (H), New Toronto, Weston (ACT)	Forest Hill, Long Branch (C) Markham (H), Richmond Hill (H), Stouffville (C), Sutton (C), Swansea, Woodbridge	(a) In York Twp.: Runnymede (AC) Vaughan Rd. (AC) York Memorial (AC) (b) In East York Twp.: East York (AC) (c) In North York " Willowdale (AC) (d) In Scarboro " Scarboro (AC) (e) In Etobicoke " Etobicoke (H) Agincourt (C), Mt. Albert (C), Schomberg (C)

TABLE 49—CLASSIFICATION OF SCHOOL CENTRES BY COUNTIES AND DISTRICTS, SEPT. 1938

DISTRICTS	CITIES	TOWNS	INCORPORATED VILLAGES	OTHER CENTRES WHERE SECONDARY SCHOOLS ARE LOCATED
Algoma	Sault Ste. Marie (CI) (CT)	Blind River (C), Bruce Mines (C), Nesterville, Thessalon (H)	Hilton Beach	Hornepayne (C), Richard's Landing (C), White River (C)
Cochrane		Cochrane (H), Hearst, Iroquois Falls (H), Kapuskasing (H), Matheson, Smooth Rock Falls (C), Timmins (ACT)		South Porcupine (H), Schumacher (H)
Kenora		Dryden (H) Keewatin (H), Kenora (H), Sioux Lookout (C)		Red Lake (C)
Manitoulin		Gore Bay (H), Little Current (C)		Manitowaning (C) Mindemoya (C)
Muskoka		Bala, Bracebridge (H), Gravenhurst (H), Huntsville (H)	Port Carling, (C), Port Sydney, Rosseau, Windemere	MacTier (C), Milford Bay (C)
Nipissing	North Bay (ACT)	Bonfield, Cache Bay, Mattawa (H), Sturgeon Falls (H)		
Parry Sound		Kearney, Parry Sound (H), Powassan (C), Trout Creek	Burk's Falls (C), South River (C), Sundridge (C)	Sprucedale (C)
Rainy River		Fort Frances (AC), Rainy River (H)		Emo (C)
Sudbury	Sudbury (H) (T.)	Capreol (H), Chelmsford, Coniston (C), Copper Cliff, Frood Mine, Massey (C), Webbwood		Chapleau (H), Espanola (C)
Timiskaming		Charlton, Cobalt (H), Englebart (H), Haileybury (AM), Latchford, New Liskeard (H)	Thornloe	Fraserdale (C) Kirkland Lake (H).
Thunder Bay	Fort William (CI) (CT) Port Arthur (CI) (CT)			Nipigon (C), Schreiber (C)

TABLE 50—INSPECTORS AND INSPECTORATES, AS OF DECEMBER 31, 1938

A—ELEMENTARY SCHOOLS

V. K. Greer, M.A., Chief Inspector, Public and Separate Schools...	Parliament Buildings, Toronto.
J. D. Campbell, B.A., Assistant Chief Inspector, Public and Separate Schools....	
J. B. MacDougall, B.A., D.Paed., Assistant Chief Inspector, Public and Separate Schools....	
Neil McDougall, B.A., General Inspector, Public and Separate Schools....	
Robert Gauthier, B.A., Ph.L., Director of French Instruction.....	
H. E. Amoss, B.A., D.Paed., Inspector of Auxiliary Classes......	
L. Helen De Laporte, B.A., B.Paed., Assistant Inspector of Auxiliary Classes....	
R. D. Keefe, B.A., Provincial School Attendance Officer.........	
G. R. Fenwick, Mus. Bac., Provincial Supervisor of Music.......	
N. Davies, B.A., Inspector of Agricultural Classes..............	

(1) City—Public

Inspectorate	Inspector	Address
Brantford....	Russell Reid, B.A., B.Paed......	Brantford.
Chatham....	H. A. Tanser, M.A., B.Paed., Superintendent of Schools.....	Chatham.
Hamilton....	Frank E. Perney, B.A., B.Paed., Superintendent of Schools.....	Hamilton.
	V. N. Ames, B.A., B.Paed.......	
	E. T. Seaton, B.A., D.Paed......	
	R. A. Riddell, B.A., B.Paed......	
Kitchener....	H. J. Prueter, B.A., D.Paed......	Kitchener.
London....	G. A. Wheable, B.A., Superintendent of Schools....	London.
	A. B. Lucas, B.A., B.Paed.......	
Ottawa....	McGregor Easson, B.A., D.Paed., Chief Inspector....	Ottawa.
	Robert Westwater, B.A., B.Paed..	
Peterborough....	K. S. Wightman, B.A., B.Paed...	Peterborough.
Sarnia....	T. C. White, B.A., B.Paed.......	Sarnia.
St. Catharines....	C. A. Brown, M.A., B.Paed.....	St. Catharines.
Toronto....	C. C. Goldring, M.A., D.Paed., Superintendent of Schools.....	Toronto.
	W. E. Hume, B.A., D.Paed......	
	P. F. Munro, M.A., D.Paed.....	
	A. G. Leitch, B.A., B.Paed......	
	G. W. McGill, M.A., D. Paed....	
	D. D. MacDonald, B.A., D.Paed.	
	H. E. Cavell, M.A., B.Com., B.Paed....	
	A. W. R. Doan, M.A., D.Paed...	
	J. L. McCullough, B.A., B.Paed..	
Welland....	John Flower, B.A..............	Welland.
Windsor....	G. S. Campbell, B.A., Superintendent of Schools....	Windsor.
	A. R. Davidson, B.A...........	

(2) County—Public

Inspectorate	Inspector	Address
Brant and Norfolk (in part); Town of Paris;	W. Joyce, B.A.	Brantford.
Bruce East; Grey (in part); Huron (in part); Towns of Chesley, Walkerton, Villages of Mildmay, Tara	J. M. Game, B.A., B.Paed	Walkerton.
Bruce, West; Towns of Kincardine, Southampton; Villages of Lucknow, Paisley, Port Elgin, Ripley, Teeswater, Tiverton	G. C. Dobson. B.A., B.Paed	Kincardine.
Carleton; Town of Eastview; Villages of Rockcliffe Park, Richmond	T. P. Maxwell, B.A.	Ottawa. 39 Glen Ave.
Dufferin (in part); Peel (in part); Town of Orangeville; Villages of Grand Valley, Shelburne	A. F. Hansuld, B.S.A.	Orangeville.
Dundas; Grenville (in part); Villages of Chesterville, Iroquois, Morrisburg and Winchester	W. J. Stewart, B.A., B. Paed	Winchester.
Durham (in part) and City of Oshawa; Town of Bowmanville	C. F. Cannon, B.A., B.Paed	Oshawa.
Elgin East; City of St. Thomas; Town of Aylmer; Villages of Port Stanley, Springfield, Vienna	J. C. Smith, B.A.	St. Thomas.
Essex, North; Towns of Amherstburg, Essex, Harrow, Riverside, Tecumseh; Vliiage of Belle River	D. M. Eagle	Windsor, 165 California Ave.
Essex, South; Kent (in part); Towns of Kingsville, Leamington, Tilbury; Village of Wheatley	W. L. Bowden, B.A.	Kingsville.
Frontenac, North, and Addington (in part)	T. J. Thompson, B.A., B.Paed	Sharbot Lake.
Frontenac, South (in part); and City of Kingston	F. P. Smith, M.A.	Kingston.
Frontenac, South (in part); Lennox (in part); Villages of Bath, Portsmouth	S. A. Truscott, M.A.	Kingston.
Glengarry (in part) and Prescott (in part); Town of Alexandria; Villages of Lancaster, Maxville	R. O. Staples, B.A., B.Paed	Alexandria.
Grey, East; Towns of Meaford, Thornbury; Village of Chatsworth	S. A. Morrison, B.A.	Meaford.
Grey, North, and Bruce, North; City of Owen Sound; Town of Wiarton; Villages of Hepworth, Lion's Head, Shallow Lake.	J. J. Wilson, B.A.	Owen Sound.
Grey, South; Towns of Durham, Hanover; Villages of Dundalk, Flesherton, Markdale, Neustadt	G. E. Pentland, M.A.	Hanover.
Haldimand; Town of Dunnville; Villages of Caledonia, Cayuga, Hagersville, Jarvis	J. L. Mitchener, B.A.	Cayuga.
Halton; Towns of Burlington, Georgetown, Milton, Oakville; Village of Acton	L. L. Skuce, B.A., B.Paed	Milton.
Hastings, Centre; Villages of Madoc, Stirling, Tweed	A. W. McGuire, B.A.	Tweed.
Hastings North, and Renfrew (in part); Villages of Bancroft, Deloro, Marmora	J. D. Deyell, B.A., B.Paed	Bancroft.
Hasitings, North; Renfrew (in part); City of Oshawa; Village of Bancroft	C. F. Cannon, B.A., B.Paed	Oshawa.
Hastings, South, and City of Belleville; Town of Trenton; Village of Frankford	H. J. Clarke, B.A.	Belleville.
Huron, East; Towns of Clinton, Seaforth, Wingham; Villages of Blyth, Brussels	J. H. Kinkead, B.A., B.Paed	Goderich.
Huron, West; Town of Goderich; Villages of Exeter, Hensall	E. C. Beacom, B.A.	Goderich.
Kent, East; Elgin (in part); Towns of Bothwell, Ridgetown; Villages of Dutton, Rodney, Thamesville. West Lorne	To be appointed	
Kent, South; Towns of Blenheim, Dresden, Wallaceburg; Village of Erieau	G. A. Pearson, B.A.	Chatham.
Lambton, East; Town of Petrolia; Villages of Alvinston Arkona, Oil Springs, Watford	J. J. Edwards, B.A.	Petrolia.

(2) County—Public

Inspectorate	Inspector	Address
Lambton, West; Town of Forest; Villages of Courtright, Point Edward, Thedford, Wyoming	H. B. Galpin, B.A., B.Paed	Sarnia.
Lanark; Towns of Almonte, Carleton Place, Perth, Smith's Falls; Village of Lanark	R. A. A. McConnell, B.A	Perth.
Leeds and Grenville (No. 1); Town of Gananoque; Villages of Newboro, Westport	James F. McGuire, M.A	Gananoque.
Leeds and Grenville (No. 2); Town of Brockville; Village of Athens	W C. Dowsley M.A	Brockville.
Leeds and Grenville (No. 3); Town of Prescott; Villages of Cardinal, Kemptville, Merrickville	W. H. Carlton, B.A., B.Paed	Prescott.
Lennox and Hastings, South (in part); Towns of Deseronto, Napanee; Village of Newburgh	T. R. McEwen, B.A., B.Paed	Napanee.
Lincoln (in part); Towns of Grimsby, Merritton, Niagara; Villages of Beamsville, Port Dalhousie	Geo. A. Carefoot, B.A., B.Paed	St Catharines.
Middlesex, East; Elgin (in part); Village of Lucan	D. G. Smith, B.A	London, 155 Thornton Ave.
Middlesex, West; Towns of Parkhill, Strathroy; Villages of Ailsa Craig, Glencoe, Newbury, Wardsville	Gordon Young, B.A	Strathroy.
Norfolk (in part); Town of Simcoe; Villages of Delhi, Port Dover, Port Rowan, Waterford	H. Frank Cook, B.A	Simcoe.
Northumberland and Durham (No. 1); Towns of Cobourg, Port Hope; Villages of Newcastle, Millbrook	E. E. Snider, B.A	Port Hope.
Northumberland and Durham (No. 2); Town of Campbellford; Villages of Brighton, Colborne, Hastings	A. A. Martin, B.A., B.Paed	Brighton.
Ontario, North, and York (in part); Town of Uxbridge; Villages of Beaverton, Cannington, Sutton West	T. R. Ferguson, M.A	Uxbridge.
Ontario South; Town of Whitby; Village of Port Perry	R. A. Hutchison, B.A	Whitby.
Oxford, North, and City of Woodstock; Villages of Embro, Tavistock	Geo. M. Mather, B.A	Woodstock.
Oxford, South, and Norfolk (in part); Towns of Ingersoll, Tillsonburg; Village of Norwich	J. W. Hagan, M.A	Ingersoll.
Peel; Town of Brampton; Villages of Port Credit, Long Branch, Streetsville	W. F. Smith, B.A., B.Paed	Brampton.
Perth, North, and Wellington (in part); Towns of Listowel, Mitchell; Village of Milverton	A. E. Nelson, B.A	Stratford.
Perth, South, and City of Stratford; Town of St. Mary's	G. N. Edwards, B.A., B.Paed	Stratford.
Peterborough, East; Villages of Havelock, Lakefield, Norwood	L W. Copp, B.A., B.Paed	Peterborough.
Peterborough, West, and Victoria, East; Town of Lindsay; Villages of Bobcaygeon, Omemee	R. F. Downey, B.A. B.Paed	Peterborough.
Prescott and Russell (No. 1); Towns of Hawkesbury, Rockland, Vankleek Hill, Village of L'Orignal (Prot. Sep. Sch.)	J. C. Webster, B.A., B.Paed.	Russell.
Prescott and Russell (No. 2)	F. Choquette, B.A	Ottawa, 121 Frank St.
Prescott and Russell (No. 3); Village of L'Original (Pub. S.)	J. S. Gratton	Plantagenet.
Prescott and Russell, (No. 4); Glengarry (in part)	Joseph Lapensee, B.A	Plantagenet.
Prince Edward; Town of Picton; Villages of Bloomfield, Wellington	C. E. Stothers, B.A., D.Paed	Picton.

(2) County—Public

Inspectorate	Inspector	Address
Renfrew, North; Town of Pembroke, Village of Cobden	Norman Campbell, M.A	Pembroke.
Renfrew, South; Towns of Arnprior, Renfrew; Villages of Barry's Bay, Braeside, Eganville, Killaloe Station	Colin W. Lees, B.A., B.Paed	Renfrew.
Simcoe, Centre; Towns of Barrie, Penetanguishene (Prot. Sep. Sch.)	W. R. McVittie, B.A	Barrie.
Simcoe, East; Muskoka (in part); Towns of Midland, Orillia; Villages of Coldwater, Port McNicoll, Victoria Harbour	J. A. Gibson, B.A., B.Paed	Orillia.
Simcoe, North; Town of Penetanguishene (Pub. S.)	H. J. Payette, B.A	Chatham.
Simcoe, South; York (in part); Peel (in part); Town of Alliston; Villages of Beeton, Bolton, Bradford, Tottenham	C. A. Lapp, B.A., B.Paed	Bradford.
Simcoe, West. Grey (in part); Dufferin (in part); Towns of Collingwood, Stayner; Village of Creemore	J. K. Evans, B.A	Collingwood.
Stormont; Town of Cornwall; Village of Finch	James Froats, M.A., B.Paed	Finch.
Victoria, West; Villages of Fenelon Falls, Woodville	E. W. Jennings, B.A	Lindsay.
Waterloo, North; Towns of Elmira, Waterloo	G. H. Dobrindt, B.A	Kitchener.
Waterloo, South; City of Galt; Towns of Hespeler and Preston; Villages of Ayr, New Hamburg	Lambert Norman, B.A	Galt.
Welland, East; City of Niagara Falls; Town of Thorold; Village of Chippawa	To be appointed	
Welland, South; Towns of Fort Erie, Port Colborne; Village of Humberstone	James McNiece, B.A	Welland. 65 Bald St.
Welland (in part); Lincoln (in part); Town of Dunnville; Village of Fonthill	W. A. Marshall, B.A., B.Paed	Welland, 18DennistounSt.S.
Wellington, North; Towns of Fergus, Harriston, Mount Forest; Palmerston; Villages of Arthur, Clifford, Drayton, Elora.	L. P. Menzies, B.A., B.Paed	Fergus.
Wellington, South; City of Guelph; Village of Erin	G. G. McNab, M.A., D.Paed	Guelph.
Wentworth; Town of Dundas; Villages of Waterdown, Stoney Creek	C. B. Routley, M.A	Hamilton.
York (No. 1); Towns of Aurora, Newmarket; Villages of Markham, Woodbridge	W. H. T. Mooney, B.A., B.Paed	Toronto, 200 Douglas Drive.
York (No. 2); Towns of Mimico, New Toronto, Weston	M. R. Fydell, B.A	Toronto, 6 Olympus Ave.
York (No. 3); Village of Swansea	W. A. Fydell, B.A., B.Paed	Toronto, 8 Olympus Ave.
York (No. 4)	W. W. A. Trench, B.A	Richmond Hill.
York (No. 5)	J. E. Wilkinson, B.A., B.Paed	Toronto, 12, 34 Chudleigh Ave.
York (No. 6); Town of Leaside; Villages of Forest Hill, Richmond Hill, and Stouffville	R. Gillies, B.A	Toronto, 13, 41 Harris Ave.

(3) DISTRICT—PUBLIC

Inspectoral Division	Inspectorate	Inspector	Address
I	Kenora and Thunder Bay (in part); Towns of Dryden, Keewatin, Kenora and Sioux Lookout	S. Shannon, B.A.	Kenora.
II	Rainy River; Towns of Fort Frances, Rainy River	W. E. Eade, B.A., B.Paed.	Fort Frances.
III	Thunder Bay (in part); City of Fort William	L. J. Williams, B.A.	Fort William.
IV	Thunder Bay (in part); City of Port Arthur	W. J. Judd, B.A.	Port Arthur.
V	Algoma (in part); City of Sault Ste. Marie; Village of Hilton Beach	D. T. Walkom, B.A.	Sault Ste. Marie
VI	Algoma (in part); Nipissing (in part); Parry Sound (in part); Sudbury (in part); Towns of Capreol, Coniston, Copper Cliff	Wm. MacMillan, B.A., B.Paed.	Sudbury
VII, Part I	Algoma (in part); Sudbury (in part); City of Sudbury; Towns of Blind River, Frood Mine, Massey, Webbwood	O. M. MacKillop, B.A., B.Paed.	Sudbury.
Part II	Sudbury (in part)	L. Carrière, B.A.	Sudbury. 10 Beech St.
VIII	Algoma (in part); Manitoulin; Towns of Bruce Mines, Gore Bay, Little Current, Nesterville, Thessalon	N. R. Wightman, B.A.	Gore Bay.
IX	Cochrane (in part); Towns of Cochrane, Hearst, Smooth Rock Falls, Timmins.	W. F. Hiscocks, B.A.	Iroquois Falls.
X	Cochrane (in part), and Temiskaming (in part); Towns of Englehart, Iroquois Falls, Matheson	H. H. Langford, B.A.	Kirkland Lake.
XI	Timiskaming (in part); Towns of Charlton, Cobalt, Haileybury, Latchford, New Liskeard; Village of Thornloe	W. L. Lovell, B.A.	Haileybury.
XII, Part I	Nipissing (in part) and Parry Sound (in part); City of North Bay; Towns of Cache Bay, Mattawa, Sturgeon Falls.	P. W. Brown, B.A.	North Bay
Part II	Nipissing (in part)	A. Gascon, B.A.	Ottawa, 135 Blackburn Ave.
Part III	Nipissing (in part); Sudbury (in part)	C. Charron, B.A.	Sturgeon Falls
XIII	Muskoka (in part); and Nipissing, South (in part); Parry Sound; (in part) Towns of Kearney, Powassan, Trout Creek; Villages of Burk's Falls, South River, Sundridge	J. R. Pickering, B.A., B.Paed.	North Bay.
XIV	Muskoka (in part), and Parry Sound, (in part); Town of Parry Sound; Village of Rosseau	J. L. Moore, B.A.	Parry Sound
XV	Muskoka (in part); Towns of Bala, Bracebridge, Gravenhurst; Villages of Port Carling, Windermere	G. S. Johnson, B.A.	Bracebridge
XVI	Haliburton and Muskoka (in part); Town of Huntsville	Albert Brown, B.A.	Haliburton.

(4) SEPARATE

Inspectoral Division	Inspectorate	Inspector	Address
I	Districts of Algoma, Kenora, Manitoulin, Rainy River, Sudbury (in part), Thunder Bay; Cities of Fort William, Port Arthur, Sault Ste. Marie (in part), Sudbury (in part); Towns of Fort Frances, Keewatin, Kenora, Little Current, Rainy River, Sioux Lookout	W. J. Greening, B.A., B.Paed.	Port Arthur, 288 Harrington. Ave.
II	Districts of Nipissing (in part); Sudbury (in part); Cities of Sudbury (in part), Sault Ste. Marie (in part); Towns of Blind River, Chelmsford, Coniston, Massey	L. Carriere, B.A.	Sudbury, 10 Beech St.
III	District of Cochrane (in part); Towns of Cochrane, Hearst, Iroquois Falls, Smooth Rock Falls	Remi Millette, B.A., B.Paed.	Cochrane, Court House.
IV	Districts of Nipissing (in part); Parry Sound (in part); Sudbury (in part); Towns of Bonfield, Cache Bay, Kearney, Sturgeon Falls	C. X. Charron, B.A.	Sturgeon Falls.
V	Districts of Cochrane (in part); Timiskaming (in part); Towns of Charlton, Cobalt, Haileybury, New Liskeard, Timmins; Village of Thornloe	R. R. Maurice, B.A.	Haileybury.
VI	Counties of Essex (in part); Lambton; Cities of Sarnia, Windsor (in part); Towns of Amherstburg, Essex, Leamington, Riverside (in part)	T. S. Melady, B.A.	Windsor, 1509 Dufferin Place.
VII	County of Essex (in part); Cities of Windsor (in part); Towns of La Salle, Riverside (in part); Village of Tecumseh	Lucien Laplante	Windsor, 1346 Benjamin Ave.
VIII	Essex (in part); Kent, Muskoka District; Simcoe Co. (in part); City of Chatham; Towns of Barrie, Blenheim, Collingwood, Midland, Orillia, Tilbury, Wallaceburg; Village of Belle River	H. J. Payette, B.A.	Chatham, 48 Robertson Ave.
IX	Counties of Bruce, Huron, Middlesex, Norfolk, Perth; Cities of London, Stratford, St. Thomas, Woodstock; Towns of Goderich, Ingersoll, St. Mary's, Seaforth, Walkerton, Parkhill; Villages of Mildmay, Teeswater	V. C. Quarry, B.A.	London, 293 Wolfe St.
X	Counties of Grey, Waterloo, Wellington; Cities of Brantford, Galt, Guelph, Kitchener, Owen Sound; Towns of Hanover, Hespeler, Mount Forest, Paris, Preston, Waterloo; Villages of Arthur, Elora, Fergus	J. C. Walsh, B.A., B.Paed.	Kitchener, St. Mary's Sch., Young St.
XI	County of Wentworth; Cities of Hamilton, St. Catharines; Town of Dundas	J. V. Scanlan, B.A.	Hamilton, 208 Holton Av., S.

(4) Separate

Inspectoral Division	Inspectorate	Inspector	Address
XII	Counties of Northumberland and Durham, Ontario, Peel, Peterborough, Victoria, York (in part); Cities of Niagara Falls, Oshawa, Peterborough; Towns of Campbellford, Cobourg, Lindsay, Merritton, Mimico, Newmarket, Oakville, Picton, Thorold, Trenton, Weston, Whitby; Villages of Hastings, Port Dalhousie	L. J. Langan, B.A.	Toronto, 325 Rose Park Dr
XIII	City of Toronto (in part); York (in part); Villages of Forest Hill, Swansea	W. J. Lee, B.A.	Toronto, 434 Brunswick Ave.
XIV	City of Toronto (in part); York (in part)	J. M. Bennett, M.A., Ph.D.	Toronto, 47 Browning Ave
XV	Counties of Frontenac, Hastings (in part); Glengarry (in part); Lennox and Addington, Stormont (in part); Cities of Belleville, Kingston; Towns of Alexandria (in part), Brockville, Cornwall (in part), Gananoque, Prescott; Villages of Chesterville, Marmora, Tweed, Portsmouth	C. P. Matthews, B.A., B.Paed	Kingston, 98 William St. W.
XVI	Counties of Lanark, Leeds, Renfrew (in part); Nipissing District (in part); City of North Bay (in part); Towns of Almonte, Arnprior, Pembroke (in part); Perth, Renfrew, Smith's Falls; Villages of Barry's Bay, Eganville, Killaloe Station, Westport	J. T. Anderson, B.A.	Renfrew.
XVII	County of Carleton (in part); City of Ottawa (in part); Town of Eastview (in part)	F. J. McDonald, M.A., B.Paed	Ottawa, 860 Echo Drive.
XVIII	City of Ottawa (in part), Clarkstown	C. A. Latour, B.A.	Ottawa, 67 Osgoode St.
XIX	Counties of Carleton (in part); Renfrew (in part); Nipissing (in part); Cities of North Bay (in part); Ottawa (in part); Towns of Mattawa, Pembroke (in part)	Adelard Gascon, B.A.	Ottawa, 74 Morleau Ave.
XX	Counties of Carleton (in part); Dundas; Russell (in part); Stormont (in part); Town of Eastview (in part); Village of Casselman	F. Choquette, B.A.	Ottawa, 121 Frank St.
XXI	Counties of Prescott (in part); Russell (in part); Towns of Cornwall (in part); Rockland; Village of Lancaster	J. S. Gratton	Plantagenet.
XXII	Counties of Glengarry (in part); Prescott (in part); Russell (in part); Stormont (in part); Towns of Alexandria (in part); Hawkesbury; Vankleek Hill	Joseph Lapensee, B.A.	Plantagenet.

B—SECONDARY SCHOOLS

G. F. Rogers, B.A., LL.D.—Chief Inspector

Secondary School Inspectors		Vocational School Inspectors	
R. W. Anglin, M.A.	G. L. Gray, B.A.	F. S. Rutherford, B.A.Sc.	L. S. Beattie, B.A.
A. J. Husband, B.A.	S. D. Rendall, B.A.	Miss A. M. Hamill, B.A.	A. M. Moon, B.A.Sc.
W. A. Jennings, B.A.	R. H. Wallace, M.A.	Miss A. W. Cameron, B.A.	Norman Davies, B.A.
A. G. Hooper, M.A.		Miss E. D. McKim, B.A.	D. W. Gordon

Address of above Secondary School Inspectors—Parliament Buildings, Toronto.

Registrar of Trade Schools—W. S. Kirkland, M.A., LL.D.

TABLE 51—PUBLICATIONS OF THE DEPARTMENT OF EDUCATION

Reports

1. *Report of the Minister*
2. *Report of Staffs of Public and Separate Schools*
3. *Report of Staffs of Collegiate Institutes, High Schools, Continuation Schools, Vocational Schools, Normal Schools and Normal-Model Schools*
4. *Report of the Committee of Enquiry into the Cost of Education in the Province of Ontario (1938)*
5. *Sixth Report of the Actuary on the Condition of the Teachers' and Inspectors' Superannuation Fund (1937)*

Acts*

1. *The Department of Education Act (1934)*
2. *The Public Schools Act (1936)*
3. *The Separate Schools Act (1936)*
4. *The High Schools Act (1938)*
5. *The Continuation Schools Act (1938)*
6. *The Vocational Education Act (1930)*
7. *The School Attendance Act (1938) and The Adolescent School Attendance Act (1938)*
8. *The Boards of Education Act (1938)*
9. *The School Sites Act (1934)*
10. *The Auxiliary Classes Act (1936)*
11. *The Public Libraries Act (1928)*
12. *The University Act (1928)*
13. *The School Law Amendment Acts (1936) (1937) (1938)*
14. *The Community Halls Act (1927)*
15. *The Teachers' and Inspectors' Superannuation Act (1936)*

*Price 25c each

Regulations

1. *General Regulations, Public and Separate Schools (1938)*
2. *Regulations of the High Schools and Collegiate Institutes (1939)*
3. *Regulations of the Continuation Schools (1938)*
4. *Recommendations and Regulations for the Establishment, Organization, and Management of Vocational Schools, and Vocational Departments in Continuation Schools, High Schools and Collegiate Institutes (1936)*
5. *Regulations, Examinations, and Courses of Study of the Normal Schools (Cir. 23) (1939)*
6. *Special Regulations and Courses of Study of the University of Ottawa Normal School (Cir. 23-B) (1938)*
7. *Extracts from the Statutes for Use in the Normal Schools (1939)*
8. *Regulations for the Administration of the Consolidated Schools (Cir. 40) (1935)*
9. *Regulations for Auxiliary Classes (Cir. A.C. 6) (1939)*
10. *Regulations respecting the Application of the School Attendance Act and the Adolescent School Attendance Act (Cir. A.A. 1) (1938)*
11. *Regulations respecting Medical and Dental Inspection of Public and Separate Schools (Cir. 56-D) (1928)*
12. *Instructions to School Inspectors re the Apportionment of the Legislative Grant among the Public and Separate Schools (Instr. 12) (1938)*
13. *Regulations respecting Special Departmental Grants to Public and Separate Schools (Cir. 56) (1936)*
14. *Regulations respecting Special Departmental Grants in Agriculture for Public and Separate Schools (Cir. 56-E) (1939)*
15. *Regulations for Inspectors' Certificates (Cir. 37) (1936)*
16. *Instructions to Presiding Officers and Candidates regarding the Annual Departmental Examinations (Instr. 5)*
17. *Regulations of The High School Entrance Examination (Cir. 48)*

PUBLICATIONS OF THE DEPARTMENT OF EDUCATION—*Continued*

Regulations—*Continued*

18. *General Regulations for Teachers' Institutes (Cir. 60) (1930)*
19. *Regulations respecting Permanent Certificates (Kindergarten-Primary, Second Class, First Class) (Cir. 72) (1939)*
20. *Recommendations and Regulations for the Establishment, Organization and Management of Home Economics and General Shop Work Courses in Secondary Schools and in Grades IX and X of the Public and Separate Schools*
21. *Recommendations and Regulations for the Establishment, Organization, and Management of Manual Training Courses in Public and Separate Schools (1939)*
22. *Recommendations and Regulations for the Establishment, Organization, and Management of Home Economics Courses in Public and Separate Schools (1939)*
23. *Recommendations and Regulations for the Establishment, Organization, and Management of Home Economics and Manual Training General Shop Courses in Secondary Schools and in Grades IX and X of the Public and Separate Schools (1939)*
24. *Regulations relating to Subjects of Study for Grades IX, X, XI and XII in Collegiate Institutes, High, Vocational and Continuation Schools and for Grades IX and X in Public and Separate Schools (1939)*

Courses of Study

1. *Programme of Studies for Grades I to VI of the Public and Separate Schools (1938)*
2. *Programme of Studies for Grades VII and VIII of the Public and Separate Schools (1938)*
3. *Courses of Study for Grades IX and X (Lower School and Fifth Classes) in Collegiate Institutes, High, Vocational, and Continuation Schools, and Public and Separate Schools (1938)*
4. *Courses of Study, Middle and Upper School, and Examinations of the High Schools, Collegiate Institutes and Continuation Schools (1938)*
5. *Suggested Courses of Study for Commercial High Schools and Departments established under the Vocational Education Act (1932)*
6. *Courses of Study and Examinations in Schools Attended by French-Speaking Pupils (Cir. 46) (1938)*
7. *Courses in Agriculture for Public and Separate Schools (Cir. 56-F) (1935)*
8. *Music in Rural Schools (1937)*
9. *An Introductory Course in Music Appreciation through Listening, for Elementary Schools (1938)*
10. *Operettas, Music Plays, Cantatas (1938)*

Text Books

1. *Text Books Authorized and Recommended, and Text Book Regulations for Public, Separate, Continuation and High Schools and Collegiate Institutes (Cir. 14) (1939)*
2. *Text Books Authorized and Approved for Vocational Schools (Cir. 52) (1939)*
3. *Supplementary Reading for Departmental Examinations (Cir. 58) (1939)*
4. *Suggested Books for Supplementary Reading in English Literature, Grades IX and X (1938)*
5. *Teachers' Manuals, etc. (1937)*
6. *Upper School Requirements in Modern Languages (Cir. 69) (1936)*
7. *A Graded List of French Supplementary Reading Books (Prepared for Schools which are Attended by French-Speaking Pupils, and in which French is a Subject of Instruction with the Approval of the Minister)*

Miscellaneous

1. *General Announcement of Summer Courses*
2. *School Year and Holidays (Form 94)*
3. *Bible Readings for Schools (3 Volumes)*
4. *Selected Scripture Readings*
5. *Teachers' Library for Rural Public and Separate School Teachers (1938)*
6. *Health Handbook for Teachers in Public and Separate Schools (1938)*

UNIVERSITY OF TORONTO
REPORT
OF THE
BOARD OF GOVERNORS
FOR THE
YEAR ENDED 30th JUNE
1938

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 12, 1939

ONTARIO

TORONTO
Printed and Published by T. E. BOWMAN, Printer to the King's Most Excellent Majesty
1939

UNIVERSITY OF TORONTO

REPORT

OF THE

BOARD OF GOVERNORS

FOR THE YEAR ENDED 30TH JUNE, 1938

To His Honour the Lieutenant-Governor-in-Council:

The Governors of the University of Toronto have the honour to present their thirty-second annual report, which includes the President's extensive review of the academic work of the University and its Colleges for the Session 1937-38, the reports of various officers and departments, and a number of appendices and statistics dealing with the manifold activities of the institution.

There are also included in the report the customary statements covering the funds and assets, including investments, as they stood at the close of business on 30th June, 1938, together with statements in detail of the receipts and expenditures of the Board for the fiscal year which ended on that date, and the certificate of audit thereof by Mr. G. T. Clarkson of the firm of Clarkson, Gordon, Dilworth and Nash.

During the year under review the Board purchased out of funds available from the Whitney Bequest the property known as No. 104 St. George Street, having an area of 12,885 square feet with a substantial brick house thereon, for the sum of $22,500. The premises have been altered and renovated to suit the needs of the Department of Psychology which is now in occupation.

The general revenue for the year amounted to $1,699,382. There were also credited to revenue the Special Legislative Grant of $900,000 and a Supplementary Grant of $200,000 (voted in lieu of $300,000 applied for), making a gross total of $2,799,382. The deduction from this sum of $66,388, representing interest credited to certain scholarship and trust funds, left available for expenditure for salaries and general maintenance $2,732,994.

The expenditure under the appropriations made by the Board for these purposes, exclusive of the Ontario College of Education which is maintained by a separate vote) the estimates for which were approved by the Minister of Education, totalled $2,830,590. There was consequently an excess of expenditures over receipts of

$97,596, to which there has to be added the small debit balance of $14,105 brought forward from the previous year, making a total deficit to 30th June, 1938, of $111,701.

The Board begs leave to observe that it has no means of absorbing this deficit and has therefore to look to your Honour-in-Council to provide a grant to cover the same.

All of which is respectfully submitted.

D. Bruce Macdonald,
Chairman.

Toronto, 20th December, 1938.

PRESIDENT'S REPORT

1937-1938

To the Governors of the University of Toronto:

Gentlemen:

I have the honour to present herewith my report on the academic work of the University and University College for the twelve months ending on the 30th June, 1938:

Introduction

The year's academic work has been marked by co-operation among the staff, thorough and stimulating teaching, much publication of the results of investigations, the carrying on of innumerable researches, and in the main, serious and successful work by the students. This university has attained among educational institutions a high reputation for scholarship, teaching and research. That reputation can be maintained only by retaining and securing instructors and investigators of the highest rank. On the teaching staff the real importance and worth of a university depends. The university still stands in the front rank of those agencies of society which are engaged in "the task of putting intelligence, rationality and spirituality into living."

The detailed report of the different faculties and departments of the University are apended and deserve careful attention. In my commentary on the work of the year, I can given only supplemental information and a summary treatment of special features.

Owing to the epidemic of poliomyelitis the University opened one week later than normal. Lectures began on October 6th.

There has been a slight diminution in the registration, mainly in the Faculties of Art and Medicine. If we look over the registration for the last few years, we shall find relatively slight variations from year to year. This probably means that there is no need in our country at the moment for a larger annual supply of graduates in the professional schools. So far as a general arts education is concerned, the life of the individual is enriched by it; he ought to be reasonably equipped with that combination of knowledge, discrimination, and sound judgment which universities seek to provide. In that case, no country can have too many men and women so trained and disciplined, no matter in what field of national life they may be found.

The hall-mark of a university is and always should be quality rather than quantity; the chief aim should be to improve the quality of work rather than merely increase the number of students, "intensification of effort rather than extension of enrolment."

Attendance

The total number of students enrolled was 7,841, of whom 4,889 were men and 2,952 women; 7,232 being registered in the colleges and faculties, and 628 in the departments. The number of students proceeding to degrees were 6,374 and to diplomas 813. Of the students in attendance 3,786 came from Toronto, and 3,251 from other parts of the Province of Ontario. Every country is represented. There has been a decrease in registration of 295.

THE STAFF

The total staff of the University and University College numbered 914, of whom 119 were professors, 77 associate professors, 93 assistant professors, 226 lecturers, associates (in medicine and dentistry) and instructors in the Ontario College of Education, 1 director, 2 assistant directors, 296 demonstrators, fellows and instructors with sessional appointments.

In the Federated Colleges there are 117.

The total number in the complete staff is 1031.

During the year we have suffered the loss of members of the staff in the past and present. The list is as follows:

Adam Carruthers, M.A., professor emeritus, faculty of arts; G. R. Pirie, M.B., F.R.C.P. (London), associate in paediatrics, faculty of medicine; C. A. Kennedy, D.D.S., associate professor, faculty of dentistry.

On Nov. 12, 1937, Professor Emeritus Adam Carruthers passed away in his 81st year. He was one of the few remaining links with the University of earlier days. Of Scottish birth and Canadian training he graduated, through University College, as gold medallist in classics in 1880, and was one of the best pupils of Dr. McCaul. After qualifying as a barrister he was drawn back to the study and teaching of Greek and Latin. He taught at Seaforth and Parkdale, and then began his long connection with the staff of University College. In 1893 he was appointed lecturer in Greek, associate professor in 1908, and in 1918 professor. Here he taught his classes faithfully and quietly till his retirement in 1923. He possessed and required a thorough knowledge of the grammar and syntax of Greek and Latin as a basis for appreciation of their literature and their legacy to modern times. With Professor J. C. Robertson of Victoria College he was the joint author of various Latin grammars and readers, some of which have been used in our secondary school for the past forty-five years. He carefully studied the influence of classical authors on English poets, especially on Tennyson. He may be said to have laid the foundations of a department of classical archaeology in our University. His three sons are graduates of this University; one of them is on the classical staff at McGill. A retiring, studious teacher, of fine character, he left a deep impression for good on the successive groups of undergraduates who attended his classes.

On May 5, 1938, died Dr. George R. Pirie, associate in paediatrics, at the age of 58. He graduated in Medicine from this University in 1901, did post-graduate work in New York and practised in Calgary. In 1913 he again went abroad, this time to London, for further experience and study. While in England he was head of the Great Ormond Street Hospital for Sick Children and received his licentiate of the Royal College of Surgeons and his membership in the Royal College of Physicians. Later, after his return to Canada, he received his fellowship in the Royal College of Physicians. He served on the staff of the Hospital for Sick Children, Toronto, and in the department of paediatrics in this University. A good teacher and skilful physician he was held in high esteem by his colleagues, his students and his patients.

Dr. C. Angus Kennedy of the Faculty of Dentistry died suddenly during the summer vacation of 1937 in his sixty-third year. A graduate of the Royal College of Dental Surgeons, he served for years as associate professor of orthodontia in the Faculty of Dentistry and was librarian of the Faculty. The high esteem in which he was held by the members of his profession is shown by his election to be President of the Ontario Dental Association and a member of the Board of Directors of the Royal College of Dental Surgeons of Ontario. A tablet to his memory has been erected in the faculty building by the profession of dentistry in the Province, and is inscribed in honour of one who was to students and colleagues "teacher, librarian and friend." The Library is his abiding monument.

Under the age limit Herbert Austin Fricker retired from the Faculty of Music. After being organist for the city of Leeds, England, from 1898 to 1917, organist and chorus master of the Leeds Musical Festival and conductor of the Leeds Philharmonic Society and of the Leeds Symphony Orchestra, he came to Canada in 1917.

He was a Master of Arts of Leeds University, a Bachelor of Music of Durham, an honorary Doctor of Music of Toronto, and a Fellow of the Royal College of Organists. Ever since his arrival in Canada he has been organist and choir master of the Metropolitan Church, Toronto, and conductor of the Famous Mendelssohn Choir founded by Dr. A. S. Vogt. On the establishment of a faculty of music in this University in 1918, Dr. Fricker became a member of the staff, lecturing on choral and orchestral work. A competent and kindly teacher, he added distinction to the Faculty of Music.

The following resigned their positions:

W. C. Ferguson, B.A., professor of methods in modern languages, Ontario College of Education; Miss I. M. Biss, M.A. (Bryn Mawr, Camb.), assistant professor political economy; T. C. Graham, B.A.Sc., lecturer, mechanical engineering; Miss E. M. Stuart, lecturer, School of Nursing; Miss H. Stantial, S.B. (Simmons), M.A., Ph.D., lecturer, chemistry; V. Lange, M.A. (Tor.), Ph.D. (Leipzig), lecturer in German; J. A. Kinnear, M.D., C.M., associate in obstetrics and gynaecology.

At the end of August, 1937, Professor William Chalmers Ferguson retired from the Staff of the Ontario College of Education after nearly half a century of service in the schools of Ontario. Graduating from this University in 1889 he taught successively in Uxbridge, St. Mary's, London and Riverdale, Toronto. In 1910 he returned to his *alma mater* as lecturer in methods of teaching modern languages in the faculty of education, and chief instructor in French and German in the University Schools. His success in training teachers led to a full professorship of methods in modern languages, to membership in the Senate of the University, and in various educational commissions. In 1935 he was appointed chairman of the committee on text-books for provincial schools in French is a language of instruction. He has exercised a fine influence on the modern language teachers of the Province, combining enthusiasm, scholarship and practical power of instructing.

Miss Irene Mary Biss resigned at the end of the year to be married and take up residence in England. A graduate of Cambridge University she came as a lecturer to Bryn Mawr College and in 1929 was appointed a lecturer in political economy in the University of Toronto. She was promoted to be an assistant professor in 1934. She was an excellent teacher, combining research with instruction. During the summer vacation she travelled over Canada investigating the economic aspects of various industries, notably of the pulp and paper industry.

Dr. James Alexander Kinnear, has been a demonstrator in obstetrics and gynaecology from 1907-8 to 1913-14, and an associate since 1914. After long and efficient service he has resigned and taken up practice in Timmins in Northern Ontario.

These and junior members of the staff who have gone to other positions deserve our heartfelt thanks for their services. Some who have been with us for years have given to the university and its students the full measure of their energies and abilities.

Leave of absence was granted to:

For the session: F. A. Mouré, Mus. Doc., bursar; D. C. MacGregor, B.A., assistant professor, political economy; G. A. Cline, M.A., instructor in University Schools.

For one term: W. H. Martin, M.A., Ph.D., F.R.S.C., associate professor chemistry; E. A. Dale, M.A. (Ox), professor, Latin; A. Brady, B.A. (Ox), M.A., Ph.D., associate professor, political economy; T. M. C. Taylor, B.A. (B.C.), M.S. (Wisc), Ph.D., assistant professor, botany; R. D. C. Finch, B.A., assistant professor, French; Miss H. L. Bryans, B.A., instructor in physical education, Ontario College of Education.

The following new appointments and promotions were made during the year:

In the Faculty of Arts:—Appointments: E. S. Moore, M.A., Ph.D. (Chic), F.R.S.C., head of the department of geology; F. B. Kenrick, M.A., Ph.D. (Leip), F.R.S.C., head of the department of chemistry; H. A. Innis, M.A. (McM), Ph.D. (Chic), F.R.S.C., head of the department of political economy; G. B. Langford, B.A.Sc., Ph.D. (Corn), professor of mining geology; M. A. Peacock, M.A. (Harv), Ph.D., D.Sc. (Glas), associate professor mineralogy; R. M. Dawson, M.A. (Dal), A.M. (Harv), M.Sc., D.Sc. (Lond), associate professor political economy; E. K. Brown, B.A., D. es L. (Paris), associate professor English; L. S. Russell, B.Sc. (Alberta), M.A., Ph.D. (Princ), assistant professor palaeontology; K. C. Fisher, B.A. (Ac), M.A., Ph.D., assistant professor experimental biology; C. D. Rouillard, A.B. (Bowdoin), M.A., Ph.D. (Harv), assistant professor French; G. F. Wright, B.S., Ph.D. (Iowa), special lecturer chemistry; J. J. Rae, B.A. (McM), M.A., Ph.D., special lecturer chemistry; F. J. Westcott, B.A. (Brandon), special lecturer political economy; D. B. DeLury, M.A., Ph.D., lecturer mathematics; V. B. Meen, M.A., Ph.D., lecturer in mineralogy; P. Nash, A.B. (Wisc), Ph.D. (Chic), lecturer, anthropology.

Promotions: J. T. Burt-Gerrans, Phm.B., M.A., Ph.D., from an associate-professorship to a professorship in chemistry; L. J. Rogers, B.A.Sc., M.A., from an associate-professorship to a professorship in chemistry; D. S. Ainslie, M.A., Ph.D., from an assistant-professorship to an associate-professorship in physics; H. J. C. Ireton, M.A., Ph.D., from an assistant-professorship to an associate-professorship in physics; G. deT. Glazebrook, B.A., M.A. (Ox), from an assistant-professorship to an associate-professorship in history; J. O. Whilhelm, B.Sc. (Sask) M.A., from a lectureship to an assistant-professorship in physics; M. F. Crawford, B.A. (West), M.A., Ph.D., from a lectureship to an assistant-professorship in physics; A. Pitt, B.A. (Houghton), from a lectureship to an assistant-professorship in physics; Miss M. A. Fritz, B.A. (McG), M.A., Ph.D., from a lectureship to an assistant-professorship in palaeontology; D. C. MacGregor, B.A., from a lectureship to an assistant-professorship in political economy; A. F. W. Plumptre, B.A., M.A., (Camb), from an lectureship to an assistant-professorship in political economy; K. S. Bernhardt, M.A., Ph.D. (Chic), from a lectureship to an assistant-professorship in psychology; C. R. Myers, M.A., Ph.D., from a lectureship to an assistant-professorship in psychology; J. R. MacGillivray, M.A., Ph.D. (Harv), from a lectureship to an assistant-professorship in English; H. Boeschenstein, Ph.D. (Rostock), from a lectureship to an assistant-professorship in German.

In the Faculty of Medicine:—Appointments: W. Boyd, M.D. (Edin), F.R.C.P., professor, pathology and bacteriology; W. W. Jones, B.A., M.B., honorary professor, surgery; C. G. Smith, M.Sc. (West), M.D., Ph.D., lecture, anatomy; Miss M. I. Tom, B.A., M.B., lecturer pathology and bacteriology; K. G. Gray, M.B., B.Sc. (Med), lecturer, medical jurisprudence; W. L. Robinson, B.A. (McM), M.B., F.R.C.P. (C), lecturer, medical jurisprudence; B. Hannah, M.B., F.R.C.P. (C), associate, medicine and clinical medicine; J. Hepburn, M.B., F.R.C.P. (C), associate, medicine and clinical medicine; T. Owen, M.B., M.R.C.P. (Lond), F.R.C.P. (C), associate, medicine and clinical medicine; T. A. Robinson, M.D.C.M. (McG), associate in surgery and clinical surgery; J. W. Ross, M.B., M.S. (Minn), associate in surgery and clinical surgery.

Promotions:—A. W. Ham, M.B., from an assistant-professorship to an associate-professorship in anatomy; G. L. Duff, M.A., M.D., Ph.D., from a lectureship to an assistant-professorship in pathology and bacteriology; K. G. McKenzie, M.B., F.R.C.S. (C), from an associateship to an assistant-professorship in surgery.

In the Faculty of Applied Science:—Appointments: S. E. Wolfe, M.A.Sc., lecturer in mining engineering; H. Carver, special lecturer, town planning.

Promotions:—C. F. Morrison, B.E. (Sask), M.Sc. (McG), from a lectureship to an assistant-professorship in civil engineering; W. L. Sagar, B.A.Sc., C.E., from a lectureship to an assistant-professorship in civil engineering.

In the Faculty of Dentistry:—Appointments:—L. A. Kilburn, D.D.S., associate professor, dental praxis; W. D. Cavanagh, D.D.S., lecturer, dentistry; C. V. Fisk, D.D.S., associate, dentistry; J. Kreutzer, D.D.S., B.Sc.(Dent), associate, dentistry; F. Martin, D.D.S., associate, dentistry; G. W. Spinks, D.D.S., associate, dentistry;

R. L. Twible, D.D.S., B.Sc.(Dent), associate, dentistry.

In the Department of Social Science:—Promotion:—A. E. Grauer, B.A. (B.C.Ox.) Ph.D. (Cal), from an associate-professorship to a professorship and directorship.

In the Ontario College of Education: Appointments:—Miss H. B. St. John, B.A., assistant professor of modern languages; A. T. McLachlan, lecturer in shopwork and instructor in University Schools; H. McGuire, B.A. (Qu), B.Paed., instructor in University Schools.

Promotion:—B. C. Diltz, M.A. (Qu), from an assistant-professorship to an associate-professorship of methods in English and history.

Medical Research—Banting:—Promotion:—C. C. Lucas, M.A.Sc. (B.C.), Ph.D., from an assistant-professorship to an associate-professorship.

Honours were conferred upon members of the staff:

Dr. William Boyd, professor of pathology and bacteriology, was invited to give three lectures under the Porter Lectureship in Medicine at the University of Kansas; Professor E. F. Burton, professor of physics, was invited to give lectures on "Low Temperature" at the Bell Telephone Laboratories, New York, at Cornell University, at the University of Rochester, and at the Massachusetts Institute of Technology; Dr. W. E. Gallie, Dean of the Faculty of Medicine, was invited to give the Founders' Lecture in Vancouver to the North Pacific Surgical Society, and the Mayo Foundation lecture; Professor T. J. Meek, department of Semitics, was elected president of the Mid-West Section of the Society of Biblical Literature, and an honorary member of the Eugene Field Society; Professor E. K. Brown, department of English, was visiting professor of English at the University of Minnesota; Professor Griffith Taylor, department of geography, has been appointed joint editor of the "International Zeitschrift für Rassenkinde" (Stuttgart), contributing editor of "Economic Geography" (Worcester, Mass), director, American Polar Society (New York), and President (Section E) British Association for the Advancement of Science at Cambridge, England; Sir Ernest MacMillan, Dean, Faculty of Music, was guest conductor of the Philadelphia Orchestra, of the National Symphony Orchestra at Washington, D.C., of the Ford Sunday Evening Hour in Detroit for five concerts, and for one of the series of Les Concerts Symphoniques in Montreal; Professor C. H. Best, professor of physiology, was elected a Fellow of the Royal Society of England; Dr. Gordon Murray, department of surgery, has been appointed Hunterian Professor in the Royal College of Surgeons of England for his work on "Heparin"; Professor Homer A. Thompson, department of classical archaeology, was elected Vice-President of the Archaeological Institute of America, and lectured in the Universities of Oxford, Cambridge and London on "Excavations in the Agora"; Dr. J. D. Fitzgerald, professor of hygiene and preventive medicine, was elected a Vice-President of the International Association of Microbiologists.

The University owes much to Herbert Edward Terrick Haultain, C.E., who has been associate professor since 1908, and professor, since 1910, of mining engineering in the Faculty of Applied Science. Graduating from Toronto, he took further work at the famous mining academy in Freiberg in Saxony. He has had experience as a mining engineer in Ireland, Bohemia, South Africa, British Columbia, the Western United States and Canada. He was held in high esteem by the mining leaders of Northern Ontario and from them obtained for his department assistance in money and equipment. In 1925 he was elected President of the Association of Professional Engineers of Ontario. He was among the founders of the Technical Service Council, established to place graduates of our technical training institutions in Canadian industry. He was awarded in 1937 the Randolph Bruce Gold Medal in recognition of his research work in mining engineering. He retired at the end of this academic year in order to pursue certain investigations in his own field for which his heavy teaching duties did not allow him the necessary time. In grateful acknowledgment of his distinguished services to the University and the mining industry of Canada, he was made a professor emeritus. He will carry on his researches in the Mill building.

which was erected during his term of office by the Ontario Department of Mines to provide the additional accommodation needed for his steadily growing department. A vigorous and stimulating personality, he has won the respect of his students and of the whole mining community.

NEW APPOINTMENTS FOR 1938-39

In the Faculty of Arts the following major appointments have been made for the coming year:

T. A. Goudge has been made a lecturer in philosophy. A graduate of Dalhousie University he held an open fellowship in Toronto in 1934-5, and the Royal Society Fellowship held at Harvard in 1936-7. He taught at Queen's University in 1935-6, and in 1937-8 took the work of Professor Vlastos of Queen's during his year of absence.

Miss J. C. Romeyn graduated with first class honours in chemistry and took special work in micro-analysis in the University of the City of New York. She succeeds Miss Stantial as lecturer in Micro-analysis in the department of chemistry.

We have been very fortunate in securing for a lectureship in applied mathematics Dr. Leopold Infeld. Born in Poland, he received his doctor's degree at the University of Cracow in 1921. He collaborated in research work with the eminent mathematicians, or theoretical physicists, Drs. Born and Einstein. He has been joint author with the latter of "The History of Relativity," and has issued other publications in his special field of research. He is warmly recommended to us by Professor Einstein and Professor H. P. Robertson of Princeton University.

The department of geography has grown so rapidly that, in view of a fresh group of students in the first year, it has been necessary to secure a full-time lecturer. After long searching, it was decided to appoint Dr. Stephen B. Jones, Bachelor of Science of the University of Washington; Master of Arts of Harvard in 1929, and Ph.D. of Harvard 1934. At Harvard he took courses in geology, geography, mineralogy, palaeontology and meteorology. After teaching experience in Harvard, Kansas State University and Lehigh University, he was appointed to the department of geography in the University of Hawaii. He has travelled widely and published valuable papers in the *Geographical Review*. His coming will relieve the already over-burdened but ever-enthusiastic head of the department, Professor Griffith Taylor.

In succession to Mr. Victor Lange, who resigned his lectureship in German to accept a position on the staff of Cornell University, Dr. Martin Joos of the University of Wisconsin has been appointed. He is of Swiss-German stock. He has specialised on the philological side of German and strengthens the department in teaching the history of the language.

To the department of political economy, Dr. Harold Amos Logan brings special authority on problems of labour and industrial relations. A graduate of Acadia University, he took postgraduate work at Yale and Chicago. He has taught in Purdue University, Brandon College, Randolph Macon College, and the University of Western Ontario as professor of economics and political science. He comes to us as associate professor of political economy. He served in the Great War in the Artillery and with the Army of Occupation on the Rhine. He has written "The History of Trade Union Organisation in Canada" (1928) and "Labour Costs and Standards" in the volume on "Labour" in the series on "Canadian American Relations" (1937), as well as articles in various economic journals. He will strengthen our economics department in the important field of labour questions.

For some years we have sought to find a suitable professor of mediaeval history. For the coming year we have appointed Dr. B. Wilkinson of the University of Manchester, England, a pupil of the well-known mediaevalist, Professor James Tout. Professor Wilkinson took his M.A. and Ph.D. at Manchester, his undergraduate career was interrupted by three years of army service, 1916-19. From 1923 to 1930, he was lecturer in history in University College, Exeter; and from 1930-8 lecturer in constitutional history in Manchester University. He has written much on the mediaeval period—including volumes entitled "The Chancery under Edward III" (1929), "The Mediaeval Council of Exeter" (1931, and "Studies in Constitutional History" (1937), and contributions to the English *Historical Review*, *History*, the *Law Quarterly Review* and other historical journals. Through the Institute of Mediaeval Studies at St.Michael's and the special equipment of Dr. Wilkinson in the constitutional history of mediaeval England, this University should continue to make valuable contributions to the interpretation of the Middle Ages in relation to present day problems.

In the Faculty of Medicine Dr. J. K. W. Ferguson has been appointed assistant professor of pharmacology under Professor V. E. Henderson. He graduated from this University in arts in 1928 and in medicine in 1932. After serving as interne in the Toronto General Hospital, he went to the University of Cambridge as a research scholar, working with Professor F. J. W. Roughton (who deals with the physico-chemical aspects of physiology). He returned to be assistant in physiology at the University of Western Ontario, and after two years was appointed to the department of physiology in the State University of Ohio at Columbus. He has shown a steady development in the breadth of his interests and in his knowledge of techniques. He has been a successful teacher in Ohio, and will doubtless prove equally influential in our department of pharmacology.

In the Faculty of Engineering important appointments have been made for the next academic year:

Charles G. Williams has been appointed to the professorship of mining engineering in succession to Professor H. E. T. Haultain. This appointment has met with universal approval from our own mining graduates and from the mining men in Northern Ontario. Professor Williams graduated from the School of Practical Science in 1903, having spent summers in the machine shop and practical milling work of the Canadian Corundum Company, and in land surveying in Saskatchewan. In 1904 he was a fellow in chemistry in this University with summer work underground in Calumet and Hecla Mine, Michigan. In 1905 he won the degree of B.A.Sc. with honours from the University of Toronto. His engineering experience has been wide and various. In the pulp and paper industry he has been chemist and superintendent; he has prospected in our north country; he has held positions of responsibility in connection with the Buffalo Mine, Cobalt; the Otisse Mine, Elk Lake, and the Nova Scotia Mine, Cobalt, he has been general manager of the Deister Machine Company, Fort Wayne, for the making of concentrating machinery; and from 1913 to 1928 he has been associated with the Hollinger Consolidated Gold Mine—serving as the general superintendent for twelve years. On retiring from the Hollinger he has been a consulting mining engineer in Toronto. The esteem in which his colleagues hold him is shown by his election to the presidency of the Professional Engineers of Ontario, the vice-presidency of the Canadian Institute of Mining and Metallurgy, and the presidency of the Toronto Branch of the Institute. In Professor Williams we believe we have found one who combines scientific knowledge with practical experience and who will transmit to students the stimulus of his own enthusiasm. He will keep his department in close touch with the mining development of our Northland.

Robert Ferguson Legget has been appointed assistant professor of civil engineering. He was trained in the University of Liverpool, receiving the degrees of Bachelor and Master of Engineering. He had a broad experience on the staff of the famous firm of consulting civil engineers, S. Meik and Buchanan of London, England. He prepared contract documents for hydro-electric schemes in Scotland, Greece, Italy and Finland, and was engaged on dock, harbour and general civil engineering work. As assistant to the chief resident engineer, he was associated with the construction of the Lochaber Water Power works in Scotland. From 1929 to 1932 he was employed as engineer with the Power Corporation of London and as resident engineer and assistant to the construction superintendent of the Upper Notch Water Power plant (probably the largest automatic plant in Canada); from 1932-6 he was engineer for the Canadian Sheet Piling Company.

In 1928 he was awarded the James Forrest medal and the Joule medal of the Institution of Civil Engineers, and later on the Society's Premium and the Telford Premuim of the same institution. For the last two years he has been in the engineering department of Queen's University, Kingston. He is a brilliant young engineer; and, by reason of his English training and varied achievements in the world of construction, he will make a fine contribution to the teaching strength of our Faculty of Applied Science.

Robert B. McIntyre comes as lecturer in applied mechanics to aid Professor T. R. Loudon in his many duties. In 1936 he graduated from this university as B.A.Sc. in mechanical engineering. Awarded a Massey fellowship he proceeded to the University of Cambridge (St. John's College) when he studied aeronautical engineering under the Mond professor of this subject, B. Melvill Jones, learning British methods and technique, especially on the side of research and development. In the vacations he has worked in the Royal Aircraft establishment in Farnborough. He will be of special value to members of the projected course in aeronautics.

Until this year we have not been able to secure a suitable person to take the work carried on by Dr. T. R. Rosebrugh, the former head of electrical engineering. Now we are glad to appoint to an associate-professorship Gordon F. Tracy (a son of Emeritus-Professor F. Tracy of the department of ethics in University College).

Mr. Tracy's undergraduate course in Toronto was broken by three years of Overseas Service in the Great War. In 1921 he graduated with honours in electrical engineering. He remained here for three years as research assistant to Professor H. W. Price. He went to the Massachusetts Institute of Technology and obtained his Master of Science degree, by work mainly on the theory of electrical machinery and circuits. He was appointed to the staff of the University of Wisconsin and has served there from 1926 to 1938, as teacher, superviser of laboratories and director of graduate students in electrical engineering. Out of this work grew two publications accepteds by the American Institute of Electrical Engineers—"Power Transients in A.C. Motors" and "Split Phase starting of 3-Phase Motors" (a thorough study of the performance of such motors in unbalanced conditions of electrical supply). During the past five years he has been employed during the summers in the A.C. Design Department of the Allis-Chalmers Mfg. Co. of Milwaukee, in developing new methods of predicting by calculation the performance of large synchronous motors during both running and starting conditions. In Professor Tracy we feel we shall have a thoroughly competent instructor, both in electrical theory and application.

In the Faculty of Music, Dr. Healey Willan and Mr. Leo Smith have been appointed professors. Both have been lecturers in this faculty for some years. Dr. Willan is a skilled organist and choir leader and a composer of world-wide fame. Mr. Leo Smith is the first cellist in the Toronto Symphony Orchestra and a noted composed of chamber music.

In the Library School, Miss M. E. Silverthorn has been appointed an assistant professor. A graduate of the University of Alberta, she served two years in the Public Library of Calgary, and then went to the University of Illinois where she received the degree of Bachelor of Library Science. After seven years of work in large public libraries in the State of Michigan she was appointed assistant professor of library science in the Carnegie Library School at Pittsburgh, from which she will come to us. She will bring to the work of our Library School the best experience and teaching power of the first class libraries and library schools of the United States.

The University in General

Under authority of the University Act, the Senate with the approval of the Board of Governors made some additions to its membership in order that all groups of graduates might be adequately represented. Medicine will be represented by three additional elected graduates, engineering by two, dentistry by two, agriculture by one;

while household science, education, and veterinary science will have one each, and pharmacy two—these four groups being previously unrepresented; the department of university extension will be represented by the director for the time being; the department of social science and the school of nursing will be represented by one member appointed by their Councils. By these changes I believe all groups of graduates will be fairly represented on the Senate.

New buildings on the west side of St. George Street have been purchased, which provide accommodation for psychology and for the Workers' Educational Association. Owing to the large number of students who take pschology in nearly all faculties it had become necessary to secure additional space for experimental and practical work. Additional space has been granted to the Canadian Medical Association to house the secretary of the allied Associations for Cancer Control.

The agreement with the Ontario College of Pharmacy for providing instruction in certain subjects has been extended for two years. In all probability the pharmacy authorities will raise the standard of admission to conform with the general university requirements, and will lengthen the course. .It has been agreed for the present that a degree in pharmacy will not be an indispensable condition for licensing to practice. The question of degree or degrees will be dealt with later.

Dr. F. A. Mouré, the bursar, who has been connected with the University for nearly half a century, was absent on leave during the session. During his absence Mr. Charles Higginbottom, the assistant bursar, efficiently discharged the duties in a year which unexpectedly called for much extra time and work.

One of the outstanding events of the year was the special Convocation held on October 22nd, 1937, to confer an honorary degree on the Hon. Cordell Hull, Secretary of State for the United States. Lord Tweedsmuir, his host in Ottawa, accompanied him to Toronto, as did also the Rt. Hon. Mackenzie King, the Prime Minister of Canada, and the American Minister to Canada, Mr. Armour. The occasion was historic. Mr. Hull's comprehensive address on the reign of law as against the reign of force was published in all the leading newspapers of the Continent.

The University and the Royal Ontario Museum made a striking display at the Canadian National Exhibition. An actual demonstration was given of the method by which the skeleton of a dinosaur is separated by patient chiselling from the encrustations which surround it. The vivarium or collection of living creatures from the museum of biology drew great crowds. To Mr. Dunlop, the Director of University Publicity, we owe this successful effort to ling up the work of the University with the general life of the Province.

A large delegation of College Presidents and Trustees and business men from the State of Georgia visited this University last May, under the guidance of Dr. Jackson Davis, associate director for Southern Education of the General Education Board of the Rockefeller Foundation. They represented various neighboring institutions in and around the City of Atlanta, such as Emory University and Agnes Scott College, and came to investigate the practical working of the system of college federation established here by the Act of 1887. We showed them all we could and they seemed happy in their visit.

Among visitors to the University who have gone over our buildings, even though they have not given lectures, are the following: Lord Eustace Percy (formerly President of the Board of Education, Great Britain, and new Rector of King's College, Newcastle, in the University of Durham), Archbishop Day of Armagh, Dr. T. R. Glover (Public Orator of the University of Cambridge), Rt. Hon. Lord Queenborough, the Lord Bishop of Leicester, England, Baron Silvercruys (the Belgian Minister to Canada), Prof. Kaye of the National Physics Laboratory of London, Dean Landis of the Harvard Law School, Viscount Cecil of Chelwood (awarded the Nobel Peace Price in 1937), Dr. Brüning (former Chancellor of Germany), Lord Hewart (the Lord Chief Justice of England), Rev. Dr. Henry Sloan Coffin (President of Union Theological College, New York), Dr. John A. Mackay (President of Princeton

Theological Seminary). President Valentine (of Rochester University), Count Robert de Dampierre (French Minister to Canada). Dr. Liu (President of Che-loo University, Tsinan, China), and Hon. Angus Macdonald (Premier of Nova Scotia).

Mr. W. B. Brander, Secretary of the Bureau of the Universities of the Empire, established in London, paid a visit to Canadian universities and to our University, among others. His observations bore on the contents of the *Universities Year Book* issued by the Bureau. This Bureau is a clearing-house of information on all phases of higher education.

FACULTY OF ARTS

Dr. Henry B. Ward, emeritus professor of biology of the University of Illinois, the most distinguished limnologist of North America, and a past president of the American Association for the Advancement of Science, recently visited the Fisheries Research Laboratory in Northern Ontario, which is carried on in connection with our department of biology. The credit for the success of this laboratory should go to Dr. Clemens (now director of the Pacific Biological Station) who organised it and Professor Harkness of our own biological staff who now directs it. Dr. Ward writes to Professor E. M. Walker, head of the department of biology:

> "I want to congratulate you on the splendid work which is being done by the Fisheries Research Laboratory. I came expecting to spend four or five days, but the work was so interesting and the contact with Professor Harness so appealing that I allowed his blandishments to persuade me and spent as many weeks with him. He has the best co-ordinated program for freshwater biology that I know of and he is getting fundamental results that far surpass those obtained by people who work on their own problems without any regard for what the other fellow is doing. I have always felt that the profitable attack on biological problems would be made in the future through co-operating investigators, and this seems to show it. I hope that that work may have the support it deserves. If then it can be effectively applied by the people in Ontario and in Canada who control the fisheries service, I am sure you will find a return far exceeding the outcome of our previous and disjointed attacks on the problem where everybody seemed to be going his own way and little attention was given to the real significance of even those results which were secured by investigators."

This is indeed high praise from the highest authority.

Professor Homer Thompson spends one half of the year with us in Toronto and the other half in Athens, where he is actively engaged in excavation work carried on under the American School.

During the spring he took an active part as assistant director in the eighth annual campaign in the excavation of the ancient Agora at Athens. The work of laying bare the Market Square itself, the public buildings, sanctuaries and private houses that surround it, is now nearing completion; though several more years will be required for the detailed investigation of the principal buildings. The activities of the past season included the exploration of the Klepsydra, the spring on the shoulder of the Acropolis which is repeatedly referred to by Greek authors; of the Eleusinion or sanctuary of Demeter and Kore, one of the most venerable in Athens; and of the roadway by which the Panathenaic Procession made its way from the lower city to deliver her now robe to Athena in the Parthenon. As in previous years, much sculpture has been found, coins, inscriptions and pottery dating from the Neolithic period through the Middle Ages. Professor Thompson spent most of the season in completing the exploration around the Council House and the adjacent Tholos which served as the office and club-house of the Councillors. It has been possible to recover the history of these buildings from their first beginnings in the time of Solon in the early years of the sixth century B.C. to their final abandonment in the sixth century of our era. The results are of interest not only for Athens, but for Greece at large. In no other city of Greece has it been possible to trace the history of the public buildings in such detail or to so early a beginning. The publication dealing with this group of building should be ready next summer.

During the summer Professor Thompson spent some time in preparing the publication of the results of excavations carried out under his direction during the previous several summers on the Pnyx Hills. The material includes almost a mile of the city walls of Athens, not previously explored, much pottery, terracotta figurines and other small finds. In this work he enlisted the co-operation of several members of the American School of Classical Studies.

Two of our graduates in classics and archaeology, Carl Roebuck of University College and W. A. McDonald of Victoria College, have gone to Athens this year and are taking part in the excavations. Roebuck has a fellowship from the University of Chicago and McDonald one from the Royal Society of Canada.

I feel that our students in classical archaeology enjoy a rare privilege in receiving tuition from one who is in constant touch with the actual work of excavation and to whom the storied land of Greece is as familiar as his homeland.

Sociology is being gradually separated from anthropology and will probably become an independent department under Professor C. W. Hart.

For the first time, the department of anthropology has been able to send out an expendition to excavate an ancient Indian site in this Province. Dr. Nash, who has had much experience of excavation among the Mississippi Valley Mounds, conducted a small group from the Museum to a property near Aylmer, which proved to be the site of a prehistoric village. The details of the discoveries made will appear in next year's report, suffice it to say that the remains of a house-structure of the Iroquois "long-house" type have been found, and 3,000 specimens have been recovered from a pile of refuse, which when carefully studied will enable archaeologists to reconstruct a picture of life in a prehistoric Canadian village.

This year the Department of Political Economy completed fifty years of teaching and research. In 1888-9 Professor Wm. J. (later Sir William) Ashley delivered the first lectures in the new department of political economy. His successors were Professor James Mavor (1894-1923), Professor R. M. MacIver (now of Columbia University) (1924-1927), and Professor E. J. Urwick (1928-1937). This department has shared in the establishment of later departments which reflect the necessary specialisation in the social services, such as law, sociology and geography; it still gives the courses in economics, political science and commerce and finance. To celebrate this jubilee, a series of lectures was planned to commemorate the work of the successive heads of the department itself and of the related departments, both in this University and in sister institutions, and to describe current trends in economic and political thought. Through distinguished alumni this department has played a great part in the life of Canada. The President gave an introduction to the series and the following lectures were given: By Prof. J. M. Clark (Columbia University)—"Industrial Stabilisation"; By Prof. A. P. Usher (Harvard University)—"Sir Wildiam Ashley"; By Prof. C. A. Ashley (University of Toronto)—"Sir William Ashley and The Rise of Commerce Schools"; By Prof. H. R. Kemp (University of Toronto)—"Prof. James Mavor"; By Prof. E. J. Urwick (University of Toronto)—"The Unity of the Social Sciences"; By Prof. R. M. MacIver (Columbia University)—"Social Sciences at the University of Toronto"; By Prof. J. Viner (University of Chicago)—"Classical Economics and Laissez-Faire"; By Prof. R. M. Dawson (University of Toronto)—"Democracy in the Modern World"; By Prof. H. A. Logan—"Labour Problems in Canada"; By Prof. Chester Martin (University of Toronto)—"Professor George M. Wrong"; By Prof. W. A. Mackintosh (Queen's University)—"Adam Shortt"; By Prof. H. A. Innis—"Professor Stephen Leacock".

In the department of economics and political science and in commerce and finance, caurses have been instituted in public and in business administration. These courses begin to differentiate in the fourth year and are carried on for a postgraduate year. On the whole it has seemed wiser to our staff to lay a broad foundation of general economic history and theory before dealing too specifically with practical problems of administration and business. The famous School of Business Administration at Harvard is entirely a graduate institution.

The two thousandth anniversary of the birth of the Roman Emperor Augustus was commemorated last December by the Classical departments of the College. Principal M. W. Wallace presided over a well-attended gathering at which addresses were delivered by Professors Norwood, DeWitt and Homer Thompson, on the political, literary and social aspects of this great period of ancient history. The publication of the Governor-General, Lord Tweedsmuir's excellent study of the life of Augustus added much public interest to this commemoration.

The Law Club, at its annual dinner in March, celebrated the coming of Lord Durham a hundred years ago. Professor Kennedy gave a succinct account of the constitutional aspects of the famous Report, and the Governor-General, Lord Tweedsmuir, spoke vividly on the character and achievements of Lord Durham himself.

Professor Lash Miller, who retired last year from the chair of chemistry, which he had held with distinction for many years, generously presented to the University his splendid private library. This contains rare books on chemistry, modern treatises, and a priceless collection of chemical journals. This library will be under the immediate charge of the professor of chemistry, and the University Library will spend $200 a year in keeping the series of journals up to date. The University gratefully acknowledges Professor Miller's valuable gift.

The Faculty of Medicine

There are several features of the year's work to be noted:

The number of students to be admitted must not be too large for the available clinical material and for the comfort of the patients in the teaching hospitals. A selective process has been adopted at the end of the first year, and will be applied in the session 1938-39. Students who fail in their first year (including supplemental examinations) will not be allowed to re-register in the first year. By this regulation the perpetual "repeaters" will drop out at the beginning, both to their own advantage and to the general advantage of the classes. A general standard of knowledge and ability will be secured sufficient to meet the exacting demands of medical training. But every consideration will be given to the first year students, lest any injustice be done them. Term work will be carefully recorded; test examinations will be given through the year, so that the teachers may have full opportunity of knowing the ability and the diligence of each student. When the results of the final examinations in the first year are known, the case of those who fail will be reviewed in the light of their whole record both in the secondary schools and throughout the university year. Even if a student, after this full consideration, fails, his time is not thrown away, as he can still register in some other course in the University. The adoption of this selective method, approved both by the Board of Governors and the Senate, is an important landmark in the development of the Medical Faculty.

The whole medical curriculum has been under review for some time by a committee of the Faculty and important changes for the better have been made. There is a general reduction in the number of hours devoted to lectures and laboratories, so that the student may have more time for individual study and reading and for clinical practice and observation. The aim of the teaching in the pre-clinical period is to introduce the student to scientific methods and the scientific habit of mind, to give him proper habits of learning and a stimulus to independent inquiry, and to equip him with such scientific knowledge as will be an adequate foundation for his strictly professional studies. In the clinical years, there will be a better correlation of lectures with laboratories. Some courses are being re-arranged, and there is a general increase in the practical training, notably in obstetrics. There is increased teaching of physical therapy on a scientific basis.

This committee of review will continue to work by investigating the curriculum for each year as a unit rather than for a departmental standpoint, and by broadly defining the objectives to be kept in view both in the basic medical sciences and in the clinical years.

Postgraduate courses, lasting for one week of intensive study in special branches of medicine and surgery, have now become a regular part of the work. This year the subjects dealt with were heart diseases, physical therapy and fractures. Medical practitioners attended, about thirty in each class, from various parts of the Province and even beyond its boundaries. One came from China and another from Peru!

The Governors purchased the valuable pathological library of the late Professor Oskar Klotz and have added it to the Medical Library. Professor William Boyd has made certain rearrangements of the objects in the Pathological Museum which facilitate the teaching and examination of specimens.

The enlargement of St. Michael's Hospital, one of our teaching hospitals, adds to the general clinical facilities of the Faculty of Medicine.

Dr. Bruno Mendel, who is working in the department of medical research on the fundamental problems of cancer, has been greatly aided by chemical results obtained through Dr. Hermann Fischer, research professor of organic chemistry, and his assistants, Dr. Baer and Dr. Grosheintz. All these members of the staff, together with others from the department of physiology and the Connaught Laboratories, attended the International Association of Physiologists held at Zurich this year.

As a result of the epidemic of poliomyelitis last autumn, Dr. Hall and Mr. Leibel of the department of medical research devised a respirator which has proved of value in many cases, and may have a wider use in cases of resuscitation.

Faculty of Applied Science and Engineering

Because of the material development of the country, young engineers are still in demand. In 1935 there were in attendance 766; in 1936 there were 789; in 1937 there were 833. It is probable that there will be a further increase next year, even though numbers are stationary or even less in other faculties. Many graduates find occupation in business and in executive positions. An engineering training develops resourcefulness, adaptability and accuracy—qualities of value in every walk of life.

The course in engineering physics has had its first graduating class and because of its stiff requirements, attracts students who have a special aptitude for mathematics and physics. Another new course just established is that in mining geology, embracing two years of mining and engineering and two devoted mainly to geology.

There is an urgent need for more accommodation and equipment for chemical and mechanical engineering (especially for hydraulics). Laboratories are overcrowded and equipment cannot be properly placed.

It is my earnest hope that in the near future a new building may be erected to house chemical engineering in juxtaposition to the chemistry building of the Faculty of Arts. The removal of chemical engineering to a new building would leave vacant much needed space in the present mining building. Those chemical students accommodated in the economics building on Bloor Street could be brought back to the general chemical family, and their removal would make room for large accommodation required for geography and psychology. A sub-committee of the Board of Governors has the whole question of these additions under consideration.

Music

The honour course in music in the Faculty of Arts is now well launched and promises to develop healthily. Professors Willan and Leo Smith, appointed to the University Faculty of Music, and the Dean of the Faculty, Sir Ernest MacMillan, will have charge of the instruction both theoretical and practical. The relations between the University and the Conservatory of Music have become closer. Mr. Ernest Hutcheson of the Jouillard Foundation, New York, made a comprehensive survey of our whole musical situation. He enumerated the function of a Conservatory as three: (*a*) to be a training school for professional musicians; (*b*) to be a general public school of music; (*c*) to be a public academical body closely connected with a university and exercising an important influence on the general musical life of the community through its examination system and by other means.

There has been an increase of 300 in the registration at the Conservatory; the number of candidates for its examinations has been 13,482.

Faculty of Forestry

Disastrous forest fires emphasize periodically the need for well-trained foresters to prevent vast loss of life and property. Since this Faculty of Forestry was established, thirty years ago, 409 students have registered and 258 have completed the course. They are working mainly in forestry and allied fields. Pulp, paper, and lumbering have absorbed about half of them. Thirty-three are in the Forest Service of the Province and seventeen in that of the Dominion. Eight are teaching in universities.

Two new courses of great practical importance were given during the year—one on fish and game preservation, and the other on the scaling of timber (this latter at the Faculty Camp).

The School of Graduate Studies

The special direction in which the University of Toronto should grow is that of providing advanced instruction for graduate students. All universities are not equipped to do this, but some Canadian institutions must assume this responsibility, unless we wish to see all our able graduates who desire to carry on additional research work going to the universities in the United States. Our University ought to develop this side of academic work. We are ready and able to do this if adequate funds can be found for this purpose.

In the Graduate School were registered 583, a small decrease from last year's numbers. Of these 421 came from Ontario. From 59 institutions these students have come, and from all the Provinces of Canada, as well as from Great Britain, China, Japan, the Bahamas, India, Newfoundland, Ireland, Switzerland and the United States. Of these students 178 have held positions on our staff as demonstrators or instructors.

The chief need of this School is an increase in the number of open fellowships. By means of the Reuben Wells Leonard bequest six additional open fellowships have been established, and these have been awarded to students from outside Ontario, in fulfilment of the generous donor's desire that, through the meeting of young men from various parts of Canada in one centre of research, the unity and higher life of the Dominion might be promoted and enriched.

Faculty of Dentistry

From England, Australia, New Zealand and India students have been enrolled. This Faculty stands high in the esteem of the dental colleges of the world, both for its sound fundamental scientific basis and for its progressive application of principles to practice. Valuable postgraduate work is being carried on in the ceramic department and under Dr. Harold Box.

The books of the late Dr. A. E. Webster (a former Dean of the Faculty) have been given to the Library and make a substantial addition to its contents.

The School of Hygiene

This School is now recognized as the chief centre of graduate teaching in public health, both in Canada and abroad. Since its opening in 1927, 182 medical graduates have received the diplomas of Public Health and are now leaders in the field of preventive medicine in various parts of our Dominion and beyond its borders. To enable suitably qualified men and women to attend the school, 74 Rockefeller fellowships and 41 Connaught Laboratory fellowships have been given. Inasmuch as it is generally accepted today that nutrition is closely linked with the maintenance of good health, special research work is being prosecuted in the field of nutrition. The director, Dr. Fitzgerald, on behalf of the Rockefeller Foundation, was absent throughout the year, making a survey of the teaching of preventive medicine to medical students in Europe and North America. Much more attention is likely to be devoted to this phase of medical instruction in the future. Dr. Fitzgerald expresses his belief that "the future progress of preventive medicine depends as much upon an enlightened and alert medical profession as upon organised community effort conducted by departments of health."

The present building, once enlarged to double its original size, is already becoming crowded—so rapid has been the development of preventive medicine, and so vast the increase in the products of the Connaught Laboratories.

Library

The number of books in the Library is 352,155, and of pamphlets 135,395, a total of 487,550, and an increase of 16,380 over last year. We seem to have reached the peak of the extraordinary increase in the circulation of books among undergraduates that has taken place during the last few years. The total circulation for staff, graduates and undergraduates for the current year has been 360,223. This number takes no account of the large circulation of books in some of the departmental libraries.

The Library is open throughout the day and in the evening.

The late Inspector G. H. Armstrong of Toronto left a valuable library of books relating to education, Canadian history and geography.

The $500.00 prize won by our team in the Putnam Mathematical Competition from among similar teams from sixty universities in North America, has been handed over to the Library for the extension of the mathematical section.

The congestion in the stack room increases every year.

University Extension

This evergrowing department has completed its eighteenth year of service to the University and the Province under the energetic guidance of Mr. Dunlop. The number of adults who have taken continuous courses is 6712—3562 men and 3150 women. Through 182 extension lectures delivered by members of the university staff throughout Ontario probably 25,000 persons were reached. The evening tutorial classes, 52 in number, were attended by 3225 persons. The Workers' Educational Association had an enrolment of 1442 and were conducted in sixteen Ontario cities and towns.

For the third season an intensive course in Public Administration was conducted, with an attendance of 158. We are indebted to the Ontario Department of Municipal Affairs, under the Hon. Eric Cross, for generous and helpful cooperation.

Correspondence courses of various kinds are taken by 797 students.

The courses in occupational and physical therapy are the only ones of the kind provided in Canada. The increasing enrolment will soon call for larger accommodation. The demand for these trained workers still exceeds the supply. In the pass course for teachers 908 are registered. This year classes were held at Brampton and at Port Arthur and Fort William.

The last course to be added, under this department, is a two-year diploma course in Aerial Navigation. The curriculum closely resembles that in the British Air Colleges and the well-known Boling School of Flying in the United States. The physical standards for admission are set by the Federal Department of Transport: the subjects to be taught include mathematics, electricity and magnetism, applied astronomy, meteorology, map construction, navigation, aircraft-engines, radio and the theory of flight. Conversational French will also be taught. Practical flying will be taught elsewhere. Probably many who take this course will find a career on the ground as meteorologists, radio operators, despatchers, in the traffic business or mechanical departments. In any field these graduates will be fitted for the most responsible posts. There will be great developments in aerial navigation and any advance will make new demands on the men in aviation. This course should provide thoroughly trained experts. It will be our duty to keep this course in close relation to every advance which aerial navigation is so rapidly making. The first class will probably be about twenty in number. Our staff will give the necessary instruction. Among the teachers will be Mr. Robert McIntyre, who returns to us from a course in aeronautic engineering at Cambridge and from the practical experience of Farnborough. Professor T. R. Loudon has for years sought to develop such a course at this, and now sees his hopes fulfilled.

SOCIAL SCIENCES

Dr. Grauer has satisfactorily completed his first year as director. Professor Urwick continues to give valuable voluntary help. The department is seeking to keep the happy mean between scientific theory and practical work. It is important that a field worker in a pupil social service agency should have a high standard of training, such as can best be given in connection with a university. In university circles in the United States the problem of training social workers is receiving marked attention, in order to meet the demands of the State social services for trained workers. The best judgment there seems to be that it is wise to concentrate training in a few of the more important universities, which can provide students with a good foundation in the social sciences.

The Sadowski scholarships in Sociology and in this Department of Social Science will prove a stimulus to the best students.

Intensive courses for social workers in the field are being planned for next year.

As soon as funds permit, the staff should be strengthened on the side of research in the social sciences. A professor to direct research on general social problems would be of value both to the students immediately under his care and to the community at large. Research in the social sciences lags sadly behind research in the physical sciences, but is even more urgently required.

SCHOOL OF NURSING

The large enrolment in the various classes is taxing the accommodation of the School to the uttermost. In refresher courses 187 nurses registered. Miss Russell, the director of the School, was absent for some months at the request of the Rockefeller Foundation to aid in a project of reorganising nursing education in London, England. There is good hope that some permanent endowment for this School may be obtained. Its methods of training are exerting an influence outside its own walls. As people realise that it is easier and wiser to maintain health than to cure disease, the sphere of preventive medicine and the public health nurse will be enlarged and appreciated.

MILITARY STUDIES

The total registration was 136. Students in the special classes may obtain through the C.O.T.C. and the War Office in London, qualifications for commissions in the various Imperial Services. The results of the War Office examinations held in March showed that 76 per cent. of the candidates were successful. Major Barry Watson, the director, notes that owing to the increasing preference for university men in the Regular Army and Air Force, and the attractive conditions offered, a number of our graduates are adopting military work as a profession.

I hope that we may soon be able to provide more commodious quarters for this work, as numbers and interest are increasing.

HEALTH SERVICE

Dr. George Porter states that the number of men examined was 2296—the largest on record—because of 710 senior students coming in for health certificates. Only 19 were unfit for physical training. The average height of our first year students is 5 ft. 9¾ in. and their average weight 144½ lbs. This is our highest average. Our freshmen stand first in height among eleven of the best American Universities and second in weight. In the last sixteen years there is a general upward trend—due probably to good nutrition and bodily exercise.

Dr. Edith Gordon reports that of the women entering University College, medicine and household science, 214 were examined and 83.2 per cent. were fit for gymnasium and swimming requirements. From the other years and from other colleges, 306 were examined, including 66 who voluntarily came for a re-examination before leaving college. Intercutaneous tuberculin tests were made on all incoming students, and on those whose previous tests had been negative. Two cases of active tuberculosis were discovered among those entering for the first time and both are now receiving treatment in sanatoria.

Tests of hearing were made as an experiment and will probably become a regular part of the physical examination.

The Tuberculin tests so successfully and helpfully applied to women students will, I hope, in the near future be applied to all students in the University.

The question of the Health Service is engaging the careful attention of the Governors and committees are considering necessary improvements and enlargements.

RESEARCH

The spirit of research permeates the whole university. Details of the various investigations in progress will be found in the reports that follow. Some are in the field of pure science and some in the applications of science to health, and industry. It is notable that more and more researches are being carried on by groups; and co-operation of related departments is essential to progress.

I may refer particularly to the work of Sir Frederick Banting and his colleagues in silicosis and in fundamental cancer problems; to the continued testing of heparin in the treatment of human beings; to the experiments at the Sick Children's Hospital and in other departments on the relation of nutrition to health; and to the romantic and amasing development of the Connaught Laboratories.

This kind of work is necessarily expensive and requires adequate funds and accommodation. This leads me again to state that one of our immediate needs is the addition of two storeys to the Banting Institute. Dr. Banting's work is undoubtedly being hindered by lack of space both for his research colleagues and for the animals required in experiment. Professor Hermann Fischer and his two colleagues in organic chemistry are at present housed in this already crowded building, until we can get the money to erect an extension to the chemistry building. Splendid work is, however, being carried on in spite of the limitations of space. After all it is the man, more than the material structure, that counts.

I have elsewhere noted that provision should be made for more research facilities in connection with the social sciences. It is easier to master matter than to master ourselves. The social sciences are the formulation of those human relations by which we master ourselves and are able to live happily and helpfully together.

INSTITUTE OF CHILD WELFARE

The St. George School, financed by the Rockefeller Foundation and conducted by a committee appointed by the Board of Governors, is being put upon a new basis. The present School is being made an institute of child study under the direction of a Council appointed by the Board. The committee felt that as a separate entity the services of the staff of the St. George School could be made more readily available to the various faculties and departments interested in the study of child development. This change has been made on the following grounds: (1) Such an institute is and has already made distinctive contributions to the understanding of the training and problems of the young child; (2) It is the only school in Canada where teachers of children of pre-school age can obtain the necessary education in this field; (3) It is the only centre from which the theory and technique of parent education can be studied and presented. The results already obtained are seen to be of great value to the teachers in our Public School systems; (4) Instruction in the field of child care is increasingly demanded in public and private school services and social welfare work. Formal courses in the University are now given in the following Departments: The faculty of household science, the departments of social science, psychology, occupational therapy, nursing and psychiatry. Forty-five students who have worked in this school have obtained the degree of M.A. and one the degree of Ph.D. Of the graduates working in the field of Child Study in the community nine are in government services, seven in nursery school and kindergarten positions, three in personal advisory work, two are principals of private schools and one is in social welfare.

Sixty-seven students completed the course for professional leaders in Parent Education and sixty groups have been conducted during the college year, attendance at which has reached the total of two thousand.

The committee recommended that the following departments be represented on the Council of the Institute of Child Study; two from the College of Education, and one each from the departments of psychology, social science, household science and medicine, together with the Director of the Institute, Dr. W. E. Blatz, and the President of the University. The Board of Governors have duly confirmed this recommendation of the committee.

The importance of the pre-school age in relation to the child's subsequent development is being increasingly recognized. This Institute of Child Study is really doing pioneer work in an important field.

The Library School

As a result of the inspection made last year by the American Library Association, it has been decided to strengthen the staff of the School by the addition of a full-time instructor.

The course is now so arranged that one-third of it is given to basic technical knowledge, one-third to knowledge of books, and one-third to administrative problems and special lectures.

Scholarships, Bursaries and Loans

I am glad to note that the list of scholarships, bursaries and loans in all colleges and faculties is increasing. The help which these can give often makes the difference between attendance at the University or non-attendance, continuance or non-continuance. Both in number and in amount our scholarships might well be extended. The problem created by the increased cost of education differentiates against the non-urban population. The rural population cannot as well afford higher education as once it did. Thus educational opportunities for city and country can but be equalised by scholarships and bursaries specially allocated to students from outside the university centre. Yet we must not forget that brilliant students from the city may also stand in need of financial help.

Falconer Lectureship

Friends of Sir Robert Falconer, President-Emeritus, of this University have raised a sum of money to establish a lectureship in his honour. The lectures will be given every second year and the subject will be some phase of international relations. Our special lectureships are being steadily increased. In Medicine are the Mickle and the Balfour lectures and in Arts the Marfleet (on Canadian-American relations), the Alexander (on English literature), and now the Falconer.

ATHLETICS AND STUDENT ACTIVITIES

Owing to the athletic fee, which the students themselves asked to be imposed, the students have been able in greatly increased numbers to be present at the Intercollegiate Games and to engage in various sports previously out of their reach, and, best of all, the gymnasium and swimming pool have been opened at night.

The Senior Rugby Team lost the championship by one point to their old and gallant rivals of Queen's University.

The new athletic fee has given greatly increased facilities for exercise and recreation to the women students, notably in connection with golf and riding.

The new athletic building for women is still in the future. Our financial resources do not allow us to proceed with its erection at present. The gift of such a building would be of inestimable benefit to the health of the women and would provide accommodation for a more thorough course in physical education. Here is an opportunity for a generously disposed friend of the young women of the Province.

In the regrettable absence of the Warden of Hart House, Mr. J. B. Bickersteth, Mr. J. R. Gilley, the Controller, acted in his stead. Mr. Bickersteth has made such progress to recovery that his return is expected for the coming year. Mr. Gilley and his assistants have "carried on" admirably. In his report will be found the details of the social, intellectual, recreational, artistic and religious work of the House. The Hon. Vincent Massey, our High Commissioner in London, never loses his interest in Hart House. He has sent out a "coronation chair", used by one of the peeresses in Westminster Abbey at the Coronation Service, and this has been placed in the Hart House Library. He has also sent one of the plaster of paris lions, holding a shield with Canada's arms upon it, which adorned the temporary annex built at the west end of the Abbey for coronation convenience. This has been set up on a pedestal in the Debates Room.

One of the most interesting reports is that presented by Mr. E. A. Macdonald, secretary of the Students Administration Council, on the varied and increasing activities of this organisation, which represents the whole student body. I cannot speak too warmly of its work and of the help I have received from Mr. Macdonald, its kindly, competent and efficient executive officer.

It publishes a Students' Handbook, the *Varsity*—the student newspaper, and *Torontonensis*, the annual year book containing the photographs of the graduating class and a description of all student activities. It bore half the cost of printing the *Directory*—a charge that should properly be borne by the University. It finances inter-collegiate debates, the band, the orchestra, and other student projects.

It has established a loan fund which has been a wonderful help to students. These loans have been so well repaid that it has been possible to loan in all about $18,000. Boarding houses for students are inspected and listed. An employment bureau has been in existence since 1933, to secure for students summer, Christmas and part-time work. Last year 1486 students were referred to positions, and this year the number is even larger. Owing to the increased activities of the Council, the Governors provided additional accommodation in Hart House.

DAVID DUNLAP OBSERVATORY

The famous 74 inch telescope continues to operate most efficiently. The number of clear working hours was 1273, and during this period 1216 photographic plates were taken. The publication of results will soon begin.

The 19 inch telescope has been put into operation.

Royal Ontario Museum

The report of the various directors are full of interest. The Sigmund Samuel Gallery has been opened to receive the great collection of Chinese books, called the "H. H. Mu Library." over 50.000 volumes.

The archaeological section has acquired several treasures of mediaeval art and sculpture.

A study of the fauna of Ontario. made by the museum of zoology, is being continued by summer surveys in various remote parts of this huge Province.

In the galleries of the museum of palaeontology have been installed a magnificent series of mural paintings, the work of the eminent artist. Mr. G. A. Reid. R.C.A. These portray the history of the world from its misty beginnings to the ordered world, as we know it to-day.

The total attendance at the Museum during the year ending on the 30th June was 268,872.

The Press

Mr. Gordon Burns, for some years assistant manager, has been appointed manager of the Press. A new press of large size, new binding machinery, and much new type have been purchased, and the whole interior has been cleaned and more conveniently arranged. Every year new books. written by members of our staff, are being published. The Oxford University Press and the University of Chicago Press are handling our publications in Britain and in the United States.

Alumni Federation

The Alumni Federation under its secretary. Mr. Byron Wood. continues to keep the graduates in touch with their *Alma Mater*. The *University Monthly* is full of interesting news and should be read by all graduates. During the year I addressed gatherings of our Alumni at Ottawa and at Chicago. Branches of the Federation have been revived at these centres. I hope that an increasing number from the very day of graduation will enroll as members of the Federation and help to form a public opinion. which recognises the value of higher education to the nation and which especially rallies to the support of our own University.

University Buildings

Col. Le Pan, the superintendent of buildings, has charge of the material fabric of the University and carries on a work of supervision, repair and construction, the extent of which is scarcely realised but which reflects the magnitude of the institution. On his office staff fourteen persons are employed. The number of buildings (not including buildings of the Federated College) is 58. The number of employees (carpenters, painters, electricians, plumbers, tinsmiths, labourers, cleaners and caretakers) is 274; their salaries and wages (including services rendered to the Connaught Laboratories. Hart House. the Athletic Association, the Royal Ontario Museum and the Federated Colleges) amounted to $324,000. Customs entries for equipment and books for all departments reached a total of 1336. The turnover in the Post Office was $36,000. The cost of coal was $105,000. Repairs and renewals amounted to $83,000 (which is less than one-half of one per cent. of the value of the buildings). The capital expenditure at the Royal Ontario Museum, the Hygiene Building and the Connaught Laboratories Farm amounted to $60,000. The number of accounts on which work was done for separate financial entities was 6,170.

The addition to the Royal Ontario Museum has been completed, and provided space for the Chinese Library and additional offices. The money for this was given by the Ontario Government, Dr. Sigmund Samuel and Sir Robert Mond, and the new galleries are named "The Samuel Galleries".

We congratulate Trinity College on its new residence for women undergraduates. This seemly and commodious building—St. Hilda's—will accommodate 73 students and will be ready for occupation for the session 1938-9.

VISITING LECTURERS

During the year the following special lectures were delivered:

On the Alexander Foundation a course of five lectures by Dr. Carleton Stanley, President of Dalhousie University, on "Matthew Arnold"; the Donald C. Balfour lecture in surgery by Dr. Gordon Gordon-Taylor. senior surgeon Middlesex Hospital, London. England, on "Gastric Haemorrhage": a lecture by Professor Hugh S. Taylor of Princeton University, on "Holes in liquids and their consequences"; a lecture by Professor Harold C. Urey of Columbia University on "Isotopes"; a lecture by Professor Morris Ginsberg, of the department of sociology, University of London, England. on "Social Development": a lecture by Mr. Harrison Brown. correspondent for the British Broadcasting Corporation, on "The Successes and Failures of the Fascist Bloc"; a lecture by Dr. W. E. Gye, Director of the Imperial Cancer Research Fund. London, England. on "Cancer Research"; a lecture by Dr. Donald D. Van Slyke, Charles Mickle Fellow for 1936. on "Neutrality regulation of the organism"; a lecture by Professor E. J. Dent, Professor of Music, Cambridge University, on "Music in university life"; a lecture by Dr. Hans Simons, New School of Social Research. New York, on "Europe of to-day and the world of to-morrow"; a lecture by Mr. Frank Rising, editor of "Business Week," on "Trade Unions in the United States"; a lecture by Dr. Alfred C. Lane, Boston, Mass., on "Recent work on the measurement of geological time"; a lecture by Dr. W. I. Jennings, of the Faculty of Law, University of London, on "The Law and Custom of Cabinet Government in England".

In connection with the Department of Physics two special courses of lectures on "The Physical Principles of Television Tubes" and "Refrigerated Storage and Transport" were arranged. and nine lectures delivered by Dr. W. H. Kohl of the Research Laboratory of Rogers Radio Tubes, Ltd., and special lecturer in the department of physics on "The History of Television"; "The Cathode Ray Tube"; "The Iconoscope"; "The Kinescope"; "The Electron Multiplier"; "The Photoelectric Image Tube"; "The Electron Gun"; "High Intensity"; "Fluorescent Screens"; "Secondary Emission": five lectures by Dr. W. H. Cook, of the Division of Biology and Agriculture of the National Research Council. Ottawa. on "General Refrigerated Storage and Transport"; "Temperature"; "Humidity"; "Atmospheric Composition"; "Special Problems".

University College. Department of English, arranged an exchange with Professor W. C. DeVane, head of the English Department. Cornell University, and with professor Herman J. Weigand, head of the Department of German, Yale University.

Professor E. K. Brown visited Western Reserve University at Cleveland. His subjects were: "Matthew Arnold and the Eighteenth Century"; "Mr. Eliot and his enemies"; "Higher Studies in English at the Sorbonne".

The following lectures were given in Convocation Hall under the auspices of the Royal Canadian Institute:

By Professor J. Ellis Thomson, Professor of Mineralogy, University of Toronto, on "Presidential Peregrinations to the Pacific"; Mr. Matthew William Stirling, Smithsonian Institute, Washington, D.C., on "By Airplane to Pygmy-land"; Dr. Karl K. Darrow, Research Laboratory of the Bell Telephone Co.. New York. on "Transmutation"; Dr. Harold E. Edgerton. Assistant Professor of Electrical Measurements, Massachusetts Institute of Technology, on "Seeing the Unseen with high-speed Photography"; Dr. George M. Sutton, Curator of Birds at Cornell University, on "A year with the Eskimos of Southampton Island"; Mr. J. A. Wilson. Department of Transport, Ottawa. on "The Trans-Canada Airways"; Professor H. E. T. Haultain, department of mining engineering, University of Toronto, on "From Rock to Dollars"; Dr. Laurence M. Gould, Professor of Geology, Carleton College, Northfield, Minn., on "Antarctic Geological Adventures"; Dr. Guildford B. Reed, Queen's University, Kingston, on "Man and his Microbes"; Mrs. Mary Vaux Walcott, Washington, D.C., on "Wild Flowers of the Canadian Rockies": Professor K. B. Jackson, University of Toronto, on "Aerial Photographic Surveying"; Dr. Harold C. Urey, Columbia University, on "The Isolation of "Isotopes"; Dr. W. H. Cook, National Research Council, Ottawa, on "Food Preservation"; Professor L. J. Rogers, University of Toronto, on "Scientific Crime Detection"; Dr. W. B. White, American Steel and Wire Company, Chicago, on "Musical Sounds and Their Engineering"; Mr. Denton Massey, M.P., Toronto, on "The Social Experiments in Sweden and Denmark"; Dr. Robert Chambers, New York University, "The Cell as the Architectural Unit of the Body"; Dr. William Boyd, University of Toronto, on "Growth—innocent and malignant"; Dr. Hugh S. Taylor, Princton University, on "Chemistry and your Automobile"; Mr. Lionel E. Taylor, Plant Explorer, on "Plant Hunting in South Africa."

LEARNED SOCIETIES

The following Learned Societies met at the University:

The American Physical Society; The American Association of Physics Teachers; The American Society of Mechanical Engineers.

SPECIAL CONVOCATIONS

Two special convacations were held, when honorary LL.D. degrees were conferred, October 22nd, upon The Honourable Cordell Hull, Secretary of State, Washington, D.C., and March 21st, upon Sir Howard d'Egville, K.B.E., of the Empire Parliamentary Association, London, England.

BENEFACTIONS

During the year the University has received the following benefactions, totalling $185,932.72:

From the estate of the late Reuben Wells Leonard, $57,350.69; Rockefeller Foundation: Child Research and Parent Education, $15.009.90, School of Nursing, $9,993.99; Eaton Endowment, $25,003.89; Sir Robert Falconer Foundation, $16,115; Ontario Mining Association grant for research in silicosis, $10,000; Carnegie Corporation: Fine Art, $4,995.51, Workers' Educational Research, $1,498.59, Physiology research, $552.06; E. A. Wallberg Memorial Fund, $7,036.57; Anonymous, for organic chemistry, $5,000; For J. S. McLean Fellowships: Canada Packers, $2,500, Mr. J. S. McLean, $2,500; Reuben Wells Leonard Fellowship and Scholarships, $3,700; W. P. Mustard Scholarship, $3,000; Geophysics Research Fund, $2,400; Eli Lilly Fellowship, $2,002.19; Graduate Fellowships: Estate of the late Sir Edward Kemp, $1,000, Imperial Oil Ltd., $500, Sir Joseph Flavelle, $250; Flavelle-Peacock Retiring Allowance, Sir Joseph Flavelle, $750, Sir Edward Peacock, $750; Bickle Bursary, $1040; D. A. Dunlap Memorial Scholarships, $1000; Arthur Cohen Scholarship, $1000; Standard Brands, research fund for chemistry, $999.07; Medical Society Bursary, $600; William Lowell Putnam Prize Fund, $505.31; J. W. L. Forster Library Fund, for fine art, $500; Emerson Wickett Memorial Scholarship, $500; Sadowski Scholarships, $500; John Northway Memorial Fellowship, $500; Sir Edmund Walker Scholarship, $450; Robert Simpson Company Scholarships, $450; University College Alumni Matriculation Scholarship, $400; Gertrud Davis Exchange Fellowship, $400; Robert Bruce Scholarship, $387.64; Johannesburg Chamber of Mines Donation, $351.75; J. A. Findlay Scholarship, mechanical engineering, $330; Toronto League for Race Betterment Scholarship, $300; School of Nursing Undergraduate Bursary Fund, $300; S. R. Parsons Scholarship, commerce and finance, $250; Mr. Robert A. Bryce, U.T.S. Engineering Scholarship, $250; J. B. Willmott Scholarships in Dentistry, $250; Percy Hermant Scholarship, $250; Anonymous, for Mary Keenan Award, $200; Delta Phi Epsilon Bursary, $200; Pan-Hellenic Association Prizes, $150; Boiler Inspection and Insurance Company Scholarship, mechanical engineering, $150; Anonymous, for special research in biochemistry, $125; Sir John Eaton Memorial Scholarship, University Schools, $120; University College Alumnae Scholarship, $100; Maurice Hutton Matriculation Scholarship, $100; University Tours Association Scholarship, $100; Darling and Pearson Prizes in architecture, $100; Herbert Willson Scholarship, $100; Toronto Brick Company Prizes, architecture, $100; Ontario Association of Architects Scholarship, $100; George Kennedy Scholarship, $83.10; Sarah Kennedy Scholarship, $83.10; St. Margaret's College Alumnae Scholarship, $75; Ramsay Wright Scholarship, $53.36; Hollywood Theatre Prizes in French, $50; Dr. R. A. Reeve Prize in Medicine, $50; Toronto Women's League of the United Synagogue Scholarship, medicine, $50; Public Speaking Association Bursary, $50; F. W. Jarvis Bursaries, $50; Hon. Charles McCrae, for Dent McCrea Scholarship, $50; Hon. Justice Riddell, for Riddell Scholarship in law, $30; Lambda Chi Alpha Alumni of Toronto, for Saddington Medal, $26.75; Hon. Dr. J. A. Faulkner, for Faulkner Medal, $26.53; Labour Research Institute Prize, $25; Engineering Institute of Canada Prize, $25; Ontario Medical Association Prize, $25; U.C. French Society Prize, $25; American Society of Heating and Ventilating Engineers, $25; University College Alumni Prize, $25; B.A.A.S. Fund, $21.81; Maurice Cody Memorial Scholarship, University Schools, $10; Alumnae Prize in English, $10.

Our Needs

A living institution like a university always has needs. As far as I can see at present, we have filled the gaps in our teaching staff. But our first need is for an adequate annual maintenance, if the efficiency of the institution and its service to all Canada are not to be impaired. In regard to buildings, we require, in my opinion, as soon as the necessary funds can be found:

Two additional storeys for Medical Research on the Banting Institute.
A new unit for Chemical Engineering.
An enlargement of the present Chemistry Building in the Faculty of Arts.
An addition to the Mechanical Engineering Building, for hydraulics and other purposes.
An Athletic Building for the women of the University.
A new residence for University College.
More space and more books for our Central Library.

General Considerations

Those who are interested in education are pointing out that it must have two objectives. First it must insure to the mass of our young people adequate training for the actual problems of living they will meet—that is, the mental discipline necessary to make a living and to enjoy life itself; and secondly, it should provide opportunities for the limited group who possess the natural ability which will qualify them for leadership and higher service in the community and the world of science. Some selective process for university education seems inevitable. Some kind of test of fitness, usually an examination, is applied. Much attention must be given to devising the best type of examination for choosing those students who will profit most by the discipline of higher education. Closely connected with this problem of selection is the problem of giving financial assistance to students of ability whose family or individual resources are insufficient. No economic group in the community should be excluded from the benefits of the highest education. Hence the necessity for an adequate scholarship policy throughout the university. There will always be a place for student self-reliance and self-help, but opportunities for finding work in vacations are not as great as they used to be, and there is a keener realisation of the cost to health and well-rounded development at which a student has too often obtained his university and professional training. President Conant of Harvard sums up the case in these words: "With the increasing emphasis on the importance of having a student's scale of living commensurate with physical well-being and the growth of a well-adjusted personality, the need for scholarships and other forms of aid becomes more pressing." I note with great satisfaction the growth of scholarships, bursaries and loan funds in our own university, but more are needed.

The universities of Canada are powerful influences on behalf of the unity of Canada. They are engaged in the common task of imparting, widening, distributing and enjoying the content of knowledge. Professors pass freely from one university to another. Students often exchange universities in their third year. There is an organised conference of Canadian universities. At the same time no institutions do more to foster an imperial and an international outlook, in contradistinction to that doctrine of blood and race and extreme nationalism that is wrecking the unity of the world, in spirit of exclusiveness, suspicion and hate. In Canada today we need to emphasise those factors that make for unity, even amid the widest diversity of resource, tradition and interest. One of these factors is our common loyalty to the Crown and to British institutions, another is our community of educational and religious ideals.

It will always be difficult in educational curricula to keep the happy mean between specialisation and a broader general training. In some way we must combine the good in each. Here we have not a case of "either—or", but of "both—and". The specialised courses, for which this University has become famous, must be built upon a foundation of liberal culture. For our specialised undergraduate courses, we have probably reached a reasonable limit. Further specialisation can best be carried on in the postgraduate school. A common first year in science, in applied science, and in philosophic and social studies, is becoming the rule. As I have already stated, our courses in public and business administration are based upon a foundation of economic, political and philosophic studies.

Among the aims of a true education are a reasonable knowledge of facts, the ability to think clearly, willingness to learn, and a sense of the fitness of things. The broader a man's education is the better able is he to deal with the problems of today. Specialisation may be carried to the point where the law of diminishing returns becomes operative and where the number of professional and business men, politicians and educators who have a broad outlook is definitely limited.

Among the unifying factors at the University athletics must take a high place. All colleges and faculties are represented on the teams, which uphold the honour of the University of Toronto on the field. The *Varsity*, the undergraduate newspaper —itself a great potential and actual influence for university consolidation—has editorially remarked: "Beside the benefits gained by the participants themselves, there is that intanglible thing called college-spirit which comes to the fore when undergraduates get together in a student section to cheer their team on to victory. College-spirit may be defined as the desire to cooperate for the good of the college." University-spirit is the desire to cooperate for the good of the whole university. When there are so many and so varied groups on our campus, there is danger of disintegrating tendencies, nothing better integrates the student body than common interest and pride in an athletic team which bears the name of the University of Toronto.

It is well to remember that there is no such thing as "painless education" and that sturdy mentality and character will not be reared by too much humouring of individual taste. A shrewd observer of educational tendencies—himself a great captain of industry—has expressed his conviction that undue emphasis is placed on the interest factor, as opposed to the factor of mental discipline. Undoubtedly if mental effort is to be fully effective there must be interest; but to eliminate the element of mental discipline and to assert that, when there is no interest (at least at the outset), it is futile to attempt to educate, is a doctrine of doubtful validity. It is probable that effort will create interest just as frequently as interest creates effort. We value most those things for which we worked hardest. The Headmaster of the Leys School at Cambridge, England, used words of boys which are as applicable to university students: "A system of education which allows boys to leave school without ever having had to do things which they disliked and without ever having had a face real difficulties is not calculated to produce a very effective type of citizen." If a youth never learns that the supreme values in life have to be struggled for mentally, morally and physically, he will not be well equipped to meet the problems of life. Can any one learn anything worthwhile without consistent effort—without, in Newton's phrase, "thinking about it all the time"? Further, is there not a danger that our youth, if nurtured mainly on the motive of interest, will conclude that the "great achievements of civilisation are a God-given right to which they are justly entitled. almost irrespectively of personal effort"? Perhaps, as in most fundamental antinomies, the answer is found in the effort to combine interest and discipline.

How far can education prove a bulwark of sound democracy in our country? Only so far as educated men actively participate in public affairs. An American university president, the Chancellor of New York University, describes his fellow-citizens in words that may in some measure be applied to ourselves: "We are a tolerant people. We are also an apathetic people when it comes to public affairs. We are good citizens to a degree. We pay our taxes when we can. We are orderly and law-abiding. Many of us go to the polls on election day. But we do not concern ourselves with matters of government as we should. . . . . Few of us get very much excited about such matters, at least until things begin to tumble about our ears. We are pretty good followers, we college-trained men and women, but seldom do we show inclination toward public leadership. . . . We now and again feel ourselves the 'forgotten' class, forgetting it is mainly our own fault. An educational programme that fails to sek improvement of this state of affairs is missing something." We in Canada should rather follow the British tradition and practice of using higher education as an approach to and equipment for public service. The State pays a substantial part of the cost of university education, it has a right to the intelligent service of its privileged sons and daughters. I believe that many of these would gladly serve if the opportunity were open to them. Many of the courses we are now offering in the University directly help to fit men for public administration and public life. The general effect of a university course should be to deepen that sense of public responsibility without which higher education would fail to become a factor in preserving the ideals and principles of democracy. A sane democracy can be maintained only if the citizens are intelligent, interested, honest and religious. Democracy based only some inherent right of man is everywhere imperilled. I believe it can survive only if it is rooted in the religious faith of a people, such a faith as recognises the worth of the individual in the sight of God. To men and women whom education has fitted for some kind of leadership the challenge comes: What are we doing with our democracy? Are we using it to best advantage? Are we making it work? Are we keeping it pure?

This is the testing time for democracy. Just because our system is based on freedom, the responsibilities of the individual are greater than they are in totalitarian states, where a man must do it every detail what the authorities tell him to do, whether he likes it or not. We do not want wholesale regimentation, but we must practice self-discipline. We want a people, not apathetic, but capable of showing enthusiasm over something, a people with sense of public as well as of private duty, a people conscious of responsibility to safeguard freedom both at home and in all parts of the world. Courage, discipline, efficiency and leadership are as necessary to democracy as to dictatorship, and will be used in a nobler cause.

Conclusion

It is no light task to administer the academic affairs of this University and to bear the anxieties about expenditures which limitation of funds necessarily creates. But my helpers have been many. To the teaching staff, to the adminisrative officers, to the benefactors, to the fine body of loyal and self-disciplined students, to the chairman and members of the Board of Governors, who have given help, wisdom and encouragement, and to the Government of the Province which has largely provided for our yearly maintenance, I offer a full measure of gratefulness.

All of which is respectfully submitted.

H. J. Cody,
President.

November 10, 1938.

APPENDIX A

(1) Report of the Dean of the Faculty of Arts
(2) Report of the Principal of University College
(3) Report of the Dean of the Faculty of Medicine
(4) Report of the Dean of the Faculty of Applied Science and Engineering
(5) Report of the Dean of the Ontario College of Education
(6) Report of the Secretary of the Faculty of Household Science
(7) Report of the Dean of the Faculty of Forestry
(8) Report of the Dean of the Faculty of Music
(9) Report of the Dean of the School of Graduate Studies
(10) Report of the Dean of the Faculty of Dentistry
(11) Report of the Director of the School of Hygiene
(12) Report of the Librarian
(13) Report on Research
(14) Publications
(15) Report of the Director of University Extension and Publicity
(16) Report of the Director of the Department of Social Science
(17) Report of the Director of the School of Nursing
(18) Report of the Director of the Department of Military Studies
(19) Report on Health Services
(20) Report on Athletics and Physical Training
(21) Report of the Warden of Hart House
(22) Report of the Director of the Connaught Laboratories
(23) Statement regarding the Museum of Archaeology
(24) Statement regarding the Museum of Biology
(25) Statement regarding the Museum of Geology
(26) Statement regarding the Museum of Mineralogy
(27) Statement regarding the Museum of Palaeontology
(28) Statement regarding the educational work of the Royal Ontario Museum
(29) Report of the Director of David Dunlap Observatory
(30) Report of the O.C. The Canadian Officers' Training Corps
(31) Report of the Secretary-Treasurer of the Students' Administration Council

(1) REPORT OF THE DEAN OF THE FACULTY OF ARTS

(Professor S. Beatty)

The honour course in Music got under way in 1937-38, with 8 students in the first year. The enrolment in the third year of the general course was almost three times the average of that in preceding sessions, while for the fourth year the corresponding enrolment was nearly doubled. The increase in attendance during 1937-38 over the earlier figures is due to the provision whereby successful students in the second or third years of honour courses, as well as certain types of these not successful, may be transferred to the next higher year of the general course. The original arrangement remains in force, whereby students who have adequate standing in the second year of the pass course may enter the third year of the general course. It will be interesting to watch the development of the general course, particularly in relation to the type of student taking it and the affect which it may have on standards in the second and third years of honour courses.

The Council has always given a great deal of consideration to the system of honour courses, both in the abstract and in relation to the reactions of students. Naturally, there must be a balance between these two, in the sense that both must be taken into account. It is to be expected that individual departments will assume more and more responsibility for adjusting the content and manner of their courses to the capacity of their students, always keeping in mind that conviction rather than merely formal assent is what must be looked for in these who are to profit by the instruction which they receive.

It is gratifying to realise that the schedules of scholarships and bursaries in the various Colleges are constantly expanding. In several cases, bursaries make the difference between attending and not attending the University. The system of loans to students by Alumni organisations is a significant and valuable development, both for what it accomplishes and for the contact which it implies between the Alumni and the life of the University.

(2) REPORT OF THE PRINCIPAL OF UNIVERSITY COLLEGE

(Professor M. W. Wallace, M.A., Ph.D.)

I have the honour to submit my annual report as Principal of University College:

Last year I had to report the resignation of Professor H. J. Davis of our English Department who accepted a post as head of the department of English in Cornell University. Once more the same American university has taken one of the most able of the younger members of our staff—Dr. Victor Lange, lecturer in the department of German, who has been appointed associate professor of German in Cornell. Dr. Lange came to us in 1930 as the first German student on the Gertrud Davis Exchange Fellowship. In 1933 he joined the staff of the college as lecturer in German. Dr. Lange has rendered admirable service to his department,—as a productive scholar, a highly successful teacher, and a wise and intelligent interpreter of the literature and history of his native land. We regret his departure exceedingly. He carries with his new position the warmest good wishes of his colleagues in Toronto.

Professor E. A. Dale was granted leave of absence during the Easter term for study in Greece and Italy. Professor C. N. Cochrane will spend next session in London and Oxford supervising the publication of a volume which deals with Roman history during the early centuries of our era, and which is to be brought out by the Clarendon Press. Professor Winnett of the department of Oriental Languages will spend the Michaelmas term in research work in Palestine and Arabia, and Professor Endicott of the department of English the Easter term at the Huntingdon Library in Pasadena, California.

As usual many members of the graduating class have won fellowships in other universities where they will pursue graduate studies. Mr. A. H. Jarvis of the department of philosophy was appointed Rhodes Scholar for Ontario; this is the fifth successive year in which this honour has come to University College. Mr. W. C. Smith of the department of Oriental languages secured the Massey Scholarship in the University of Cambridge, Mr. G. D. A. McPherson the J. S. McLean Fellowship in the University of London, Miss Constance Lailey the Gertrud Davis Fellowship in the University of Leipzig and Mr. H. C. Keenan the Leonard Fellowship in the University of Toronto.

Perhaps the most striking testimony to the high scholarship of our undergraduate body has been furnished by the department of Mathematics. In April of this year the Mathematical Association of America conducted a competition open to teams of three, or to individual contestants, from colleges and universities in the United States and Canada. Altogether there were 163 individual contestants from 67 institutions. When the results were announced the University of Toronto stood first, California second and Columbia third. The Toronto team was composed of A. J. Coleman and N. S. Mendelsohn of the third year and I. Kaplansky of the fourth year. Mr. Kaplansky also secured the highest standing of any individual student in the competition. All three of the successful candidates were students of University College.

The benefactions of graduates of the college continue on the ample scale to which we have become accustomed. Among the gifts received during the present session are the following:

(*a*) Two scholarships in the honour course in sociology, one in the second and one in the third year, of the value of $125.00 each, the gift of Mr. B. Sadowski who graduated from the college in 1918 in the honour course of mathematics.

(*b*) The Herbert Willson Scholarship in the second year of the honour course in biology and medicine of the value of $100.00, the gift of Miss Alice Willson of the class of 1894 in memory of her brother, Dr. Herbert Willson.

(*c*) The Wilfred P. Mustard Scholarship in Classics to be paid from the income of a sum of $3000.00 given by Dr. J. W. Mustard and his two sisters in memory of their brother, Professor Wilfred P. Mustard, for many years head of the department of classics in Johns Hopkins University, and a graduate from University College in 1886.

(*d*) The Maude Charleton Gibson Scholarship to be paid from the income of a sum of $1500.00 bequeathed to the college by Mrs. W. A. Charlton in memory of her daughter who was the wife of Mr. John J. Gibson, a member of the Board of Governors.

(*e*) The renewal for a fourth year of the prize of $50 in oral French, the gift of the Hollywood Theatre.

(*f*) A prize of $50 given by the Public Speaking Association of Toronto and to be awarded at the discretion of the College Council.

(*g*) A prize of $25 given by the Alumni Association of the college, and to be awarded at the discretion of the Council.

(*h*) A scholarship of $150, given by Mr. Arthur Cohen, K.C., and his wife, to be awarded to a student of University College in English at the end of the first year.

A course of five lectures on Matthew Arnold was delivered by President Carleton Stanley of Delhousie University in Hart House on January 31st and the first four day of February. The lectures will be published during the summer by the University Press. The regular college course of public lectures was given during the Michaelmas term on *Aspects of the Victoria Era*. The lectures were Professors Mackay, Endicott, MacCallum, Coventry, Urwick, Bladen and Creighton.

We have continued our recent practice of informally exchanging lectures with other universities. During the present session we have had visit of two or three days from Professor DeVane, recently appointed Dean of Yale College, and Professor Weygand, head of the department of German in Yale. In return Professor Fairley of our German department visited Yale and Professor Brown of our English department visited Western Reserve University. It seems unnecessary to stress the value of this plan for keeping the members of our staff in touch with the work that is being done in similar institutions.

(3) THE ANNUAL REPORT OF THE DEAN OF THE FACULTY OF MEDICINE

(*W. E. Gallie, M.D., F.R.C.S. Eng.*)

The many letters received from graduates who have read recent annual reports from the Faculty of Medicine have indicated clearly that the plan of issuing it in the form of a letter designed to keep them in touch with all the activities of the Faculty is much appreciated and should be continued. As in last year's report, therefore, the Dean will comment upon matters of general interest to the whole faculty, and the heads of the various departments will discuss those subjects, both scientific and administrative that have been of interest in their particular fields.

As indicated in the report of last year the Faculty Council has been much concerned with the increasing numbers of students who desire to register in this Faculty and with the low level of scholastic aptitude shown by many of them. As it is quite impossible to keep up the standard of clinical instruction in the three final years if the hospitals are overrun with students, all possible ways of keeping the numbers within reasonable limits have been considered and every suggestion studied which might lead to a selection of those who are most likely to be successful.

As this question of how many students shall be accepted and who they shall be is of the utmost importance to the Faculty and as a definite policy in regard to it has now been decided upon, it would seem that the time is ripe for a frank discussion of the subject with the graduates.

Twenty years ago, from seventy to a hundred freshmen who held the matriculation standing of that time were admitted from Ontario and the other provinces, with an occasional student from the United States and other foreign countries. By the time they graduated the numbers had usually diminished by ten per cent. Then came the Rockefeller report on medical education and the almost immediate closing of hundreds of medical schools on this continent and the enormous raising of standards of both premedical and medical education. In Toronto the matriculation was raised from the pass to the honour standing and the medical course was lengthened first from four to five years and then to six. Many schools have required that students entering medicine shall hold a degree in the natural sciences, but so far we have not insisted on this but have attempted in a six year course to give the student an adequate training in the medical sciences and a slight contact with some of the purely cultural arts subjects. With this changing of the curriculum has come an enormous improvement in the courses given in both the preclinical and the clinical years, so that our Faculty has been able to reach and to maintain a position, as indicated by the Rockefeller reports, among the best schools on the continent.

Coincident with the sharp reduction of the number of schools and the general raising of the standards of medical education throughout America, many of the School abruptly reduced the number of freshmen accepted to 50 or 60, the number that could be handled satisfactorily in their associated hospitals. Naturally the selection committee picked out those applicants who appeared to be the best. I understand that nowadays such Schools as Western Reserve, Rochester and Buffalo select 50 or 60 freshmen from nearly a thousand applicants who hold their entrance qualifications and the result has been that we have been finding it increasingly difficult to compete with these Schools in the average of the intelligence of the students.

With this great general reduction in the opportunity for registration there has been a steadily increasing pressure for admission to Toronto and some years ago it became necessary to increase the restrictions. Bearing in mind that this Faculty is supported by the Province of Ontario, these restrictions have not yet been applied to its citizens. They have, however, been applied stringently to the citizens of other countries and to a lesser degree to citizens of our sister provinces. Thus each year we have approximately five hundred applications from Americans who cannot get into the Grade A schools at home, and these are all declined. There are a certain number of applications from sons and daughters of our own graduates who live in the United States or elsewhere and from these we select only those who show aptitude for a prolonged course of study. This has caused some resentment on the part of some of our graduates but we hope that they will appreciate the great changes that have developed since their day and accept the general principle that this Faculty must serve primarily the citizens of Ontario.

Besides providing educational opportunity for young men and women from this Province, we must also lend assistance to the other provinces, particularly those who have no medical schools. In the case of British Columbia and New Brunswick, which have no medical schools, we accept graduates in arts who have covered the natural sciences and also students who have taken the first two years of that course. Such students are accepted into our second year if their academic record indicates that they may be expected to make satisfactôry progress. With the University of Alberta we have an agreement by which students in either school may transfer to the other, provided all subjects in the previous year have been completed. The University of Saskatchewan has a course which coincides fairly well with our preclinical years. It is a four year course leading to a B.Sc. or a B.A. degree. We accept such graduates into our fourth year if their records are satisfactory. We also accept into our second year some students from Saskatchewan and Western Ontario who have completed satisfactorily their first two years, provided the number registered in our second year is not already excessive. In the case of St. Francis Xavier and Acadia Universities in Nova Scotia, and McMaster and Ottawa in Ontario, we accept into our second year graduates or students who have completed courses equivalent to our first year. From Alberta, Manitoba, McGill, Dalhousie and Queen's we consider applications for admission to the next higher year at Toronto provided equivalent courses have been completed and the applicant's record has been without stain, failures or poor reports from his school.

Before the period of overcrowding of our medical schools began, the previous record and aptitude of applicants from other Universities and provinces were not considered very carefully, but for the past few years this has to be changed and now no students are accepted from outside Ontario who cannot be classified as good students. They always may be found in the upper third of the class.

But in spite of these restrictions, lengthenings of the course and general raising of standards, the overcrowding has continued. Three years ago there were 450 students in the three clinical years. This is an intolerable condition from many standpoints but from two in particular. First, it is difficult if not impossible in a city of the size of Toronto to give an adequate training in the principles of medicine, surgery and obstetrics to 450 students. Secondly, it is not fair to the patients in our public wards to force them to submit to continual use as clinical material for teaching. The Faculty determined, therefore, that in some way or other the number of students in the clinical years must be reduced to approximately 100 in each year.

In examining the plan of selection of freshmen in the Class A Schools in the United States and such Canadian Schools as McGill, Queen's, Western Ontario, and Manitoba, we found the method simple. Each school has a definite limit to the number of freshmen who will be accepted, usually between 25 and 75, and from the mass of applications the requisite number of the brightest students are selected. The choice is based on previous scholastic record, recommendation by head masters of schools, personal interview and standing in the so-called "Scholastic Aptitude Test" concerning which something will be said later. This method could not be adopted in the University of Toronto, however, as here we have a definite matriculation standard which gives any Ontario student who has it, no matter how long he took to obtain it, the right to register.

In searching for other plans of selecting students a study of the whole scholastic and academic records of large groups was made by the assistant dean, Dr. E. S. Ryerson. This showed conclusively that students with poor records in high school and in arts courses almost invariably did badly throughout their medical course and that students who had failures in their freshman year almost always had failures in subsequent years and either failed to graduate or did so only after repetition of whole courses of study. It was determined, therefore, that while no limit could be placed on the number of students from Ontario who might wish to register in the freshman year (provided they had their senior matriculation), it would be wise to allow only those to advance to the second year who had shown aptitude for medical studies. It must be agreed that the kindest way to deal with the poor student and his parents is to drop him at the earliest possible moment from a course of study for which he has no aptitude.

As indicated above, the freshman year is really a premedical year during which the student studies in lecture hall and laboratory the fundamental sciences, physics, chemistry and biology. In addition he elects one arts subject, usually French or German and he attends a course of lectures on the history of science and civilisation. It is a full year and forms an excellent educational basis for the medical course.

The first step in developing a plan of selection consisted of raising the passing standard of the first year in the three sciences. Previously a mark of 50% in each subject constituted a pass. This has been changed in that while 50% is still the passing mark in each subject, an average of 60% must be obtained in the total of the three sciences. No supplemental examinations are allowed in these three subjects. While this does not appear to be an important change, it nevertheless reduced the number with a clear pass to a level that could be handled in the clinical years. We were annoyed to find, however, that the following autumn most of those who had been ploughed returned for re-registration in the first year in spite of strong advice to the contrary, and as there was no way of preventing this re-registration, the first year was larger than ever. As might be expected, these repeaters nearly all scraped through in the following spring examination, for only mental defectives could fail to pass this examination after two whole years of preparation for it.

This experience demonstrated that nothing short of strict methods of selection could be effective and it was accordingly determined to add to the existing regulations that students who failed in their first year examination could not re-register in the first year. This regulation comes into force this year and it should do something towards reducing the number of students to a level where each can expect to receive adequate training and where the general standard of intelligence will be equal to the work for which they are to be trained.

This final step in establishing methods of selection was taken only after grave consideration and with full realisation that occasional mistakes might be made in dropping from the Faculty students who might ultimately have achieved success in their studies and practice. To reduce this chance to a minimum, a system of recording the term work has been established and a series of test examinations introduced in order that the instructors may acquire early some knowledge of the application and ability of the students. When the results of the final examinations are considered, the whole record of these students who have failed, throughout high school and medical college, is reviewed and every effort made to eliminate mistakes. To lessen the hardship to those who have failed simply because they had selected the wrong course, the way is still open for them to register in the first year in any other course in the University, or, if they have obtained a 50% standing in the subjects of the freshman year in medicine, to apply for admission to the second year of the pass arts course.

In determining the fate of borderline students, the Scholastic Aptitude Test of the Association of American Medical Colleges is likely to prove helpful. This test is applied to applicants for admission to most Class A American Medical Schools, during their premedical years in college. Last year we submitted our first year to the test early in December and were much interested to find that the standing obtained by the students in this very general test of intelligence, memory, powers of observation, general information, and so on, agreed very closely with students' records throughout the year and at the final examination. The test should be useful, therefore, in helping us to make the best selections for promotion to the second year.

Two years ago a committee of the Faculty was appointed to study the whole medical curriculum and to recommend whatever changes might lead to its improvement. At the end of the first year of the study the committee reported on the curriculum of the first, second and third years and recommended a general reduction of the number of hours devoted to both laboratories and lectures. They formed the opinion that with the passage of time, the various departments had tended to introduce much that was of special and advanced character into their courses and had forgotten that for the average medical student a firm grasp of principles is what is desired. In view of the committee the objects of the whole preclinical period of a medical curriculum ought to be (1) to introduce the student to scientific method and to imbue him with the scientific habit of mind, (2) to induce in him correct habits of learning and the faculty of independent inquiry, and (3) of course, to equip him with such a body of fully assimilated scientific information as will form an adequate and enduring basis for his later, more purely professional studies. Each department has sought to elaborate its courses to the fullest possible extent, and with this object has sought the largest attainable share of the student's time. The result is that the curriculum has become overloaded in content, and overcrowded in time. The student has no time for individual study and reading—no encouragement therefore to teach himself. His one duty he feels, and is practically made to feel, is to commit to memory a certain mass of information; and, having discharged this at an examination, to replace it as completely as possible by another. The Faculty is convinced that the results of this system are not good and that a general reduction of the time devoted to lectures and laboratory classes would probably produce an improvement. The remedy is not simple.

One of the most important changes has been made at the request of the professor of pathology, Dr. Wm. Boyd. Hitherto, pathology has been taught in the fourth and fifth years synchronising with the clinical teaching, but according to the new plan it has been moved back into the third and fourth years. This was made possible by the reduction of the time devoted to chemistry, physiology and anatomy and it has the great advantage that when the student commences his clinical work at the beginning of the fourth year, he has some knowledge of the principles of pathology and when he enters the fifth year, which is the year of intensive study of disease, he had already covered the special pathology of those diseases.

This year the Committee on Curriculum completed its study of the three clinical years and made the same criticism as in the report on the primary years, that while the courses have been, on the whole, of excellent quality, some of them have been over-elaborated so that the student, busy in the acquisition of a mass of detail, loses sight of the principles of the subject and of its real place in the science and art of medicine. The changes recommended and adopted were as follows:—

1. *Bacteriology* (third year)—A reduction from 165 hours to 120 hours, a change that partly balance the introduction of 45 hours of pathology in the third year.
2. *Pathological Chemistry*: A reduction of the laboratory course from 60 hours to 40 hours. The lecture course will be of the same length but will begin in the third trimester of the fourth year and be completed in the first trimester of the fifth year. This change has two advantages; first, that it correlates more closely the lectures with the laboratory work, and second, it relieves to a certain extent the already overcrowded fifth year. This change will facilitate the student beginning the clinical study of certain types of cases in the department of medicine in the third trimester of the fourth year instead of the beginning of the fifth year.
3. *Radiology*: A reduction of the number of didactic lectures from 40 to 30 hrs.
4. *Obstetrics*: In this subject the most important changes have been introduced. Last

year the didactic course on normal obstetrics was moved back into the fourth year and the timetable so planned that all didactic work would be completed by the end of the fifth year. At the same time arrangements were made with St. Michael's and the Western Hospitals whereby each fifth year student will have five weeks intensive practical training in one of these hospitals. During this period he will either live in hospital or be on call continuously. He will be excused from all other work except afternoon lectures. In the sixth year he will again have five weeks practical training in obstetrics and gynaecology, during part of which time he will live in the General Hospital and take part in the routine work as in general practice. This very great increase in the practical training in obstetrics should remove what has hitherto been a serious weakness in our course.

5. *Physical Therapy*: The increasing popularity of various empirical forms of physiotherapy led the committee to recommend greater attention to the teaching of this subject. Under the direction of Dr. W. J. Gardiner in the department of therapeutics, the teaching of physiotherapy has been established on a scientific basis and each student is given an opportunity to acquire both theoretical and practical training in the essentials.

The work of the Committee on Curriculum has prove so valuable that the Faculty decided to continue it for another year with the idea that it might investigate the schedule for each year as a unit, in contrast with the former approach from the departmental standpoint, and also that it might define along broad lines the objectives to be kept in view in the basic medical sciences and the clinical divisions of the course as a whole.

The summer courses for volunteer students from the sixth year was continued in surgery and obstetrics and again proved very succesful. These students were distributed among the various services as externs and received a practical training very similar to that of a hospital intern. When the trimester comes in the regular term, during which they should be studying the subject covered during the summer, special appointments will be given to them in work in which they feel weak or in which they are specially interested. Thus, two will have appointments as externs at the Hospital for Sick Children, one at the Emergency Department of the General Hospital, one in the Urological Department and one on the Cancer Wards.

Accounts of the many important researches at present being conducted in this Faculty will be found in the reports of the various departments. Some of these are of the utmost importance and indicate that this University hold a strong position among the great centres of learning.

The outstanding medical contribution of the year came in response to the challenge of the epidemic of infantile paralysis which swept through Toronto and Ontario last Autumn. The whole staff of the Hospital for Sick Children rose to this emergency and in conjunction with the Departments of Health of the Province and City did excellent work in the diagnosis and treatment of the disease. The size of the epidemic made it possible to observe in large numbers of cases the effect of convalescent serum. The consensus of opinion was that it was of no value. The suggestion, supported by experimental evidence on monkeys, that spraying the olfactory mucous membrane with zinc sulphate solution would prevent infection with the virus of the disease was tested out in a mass experiment on 5,000 children. A study of the results showed that the method as carried out was of no value.

A feature of the epidemic was the surprising number of adults that were affected. This presented an emergency at the General Hospital which was ably handled by the medical staff.

In both the children and the adults a very high percentage showed involvement of the muscles of respiration and to meet the situation the mechanical department at the Children's Hospital supplied large numbers of Drinker respirators which proved of great value to both children and adults.

The postgraduate courses on manipulation therapy, cardiovascular diseases and fractures, held in the latter part of September, were well attended and successfully carried out. This year the courses will be on metabolic and endocrine disorders and on cancer. These short courses of one week of intensive study of special branches of medicine and surgery are proving very attractive to the graduates of both this School and others and will be continued as a part of the regular University work.

This year the Donald C. Balfour Lecture was delivered on Lister Day by Mr. Gordon-Taylor of Middlesex Hospital in London, England. His subject was "Gastric Haemorrhage". Mr. Gordon Taylor made the journey from England specially to give this lecture and so brought to fruition the founder's hope that in this lectureship our students might, from time to time, have an opportunity to hear distinguished surgical teachers from abroad.

The practice of inviting the Charles Mickle Fellow to deliver a lecture to the students and Faculty has proven very successful and has given us an opportunity to meet intimately the most distinguished practical research workers of their time. Last year we had a most interesting lecture from Dr. Donald D. Van Slyke on "Neutrality regulation of the Organism". This year the award has been made to Dr. George Hoyt Whipple of the University of Rochester for his work on pigment metabolism and regeneration of haemoglobin.

Well deserved honour has come this year to Professor C. H. Best, Head of the Department of Physiology, who was elected a Fellow of the Royal Society of England. Dr. Gordon Murray of the Department of Surgery has been much honoured also in his appointment as an Hunterian Professor in the Royal College of Surgeons of England for his work on "Heparin".

I regret to have to record the death of a member of the Faculty, Dr. George R. Pirie, of Dr. George C. McIntyre, a former teacher in the department of surgery, and of Dr. E. A. Gray, the medical superintendent at the Toronto General Hospital.

Doctor Pirie was a distinguished member of the medical staff of the Hospital for Sick Children and an excellent teacher of paediatrics. Dr. McIntyre was an exceedingly popular young surgeon whose retirement some years ago because of ill health was regretted by all. Doctor Gray was known to all interns and students and was a valued friend of the University.

(4) REPORT OF THE DEAN OF THE FACULTY OF APPLIED SCIENCE AND ENGINEERING

(*C. H. Mitchell, C.B., C.M.G., C.E., D.Eng.*)

The past session has been noteworthy in this Faculty because of the steady and serious application to work by the students, with their consequent excellent academic results.

Notwithstanding the general unrest which is abroad, and the apparent unconcern and inattention of present-day youth to serious things, the young men of this Faculty appear to have successfully resisted the slackness which seems to so generally prevail. This has been observable both in their academic work and their student activities, and is a tribute not only to their own determination and judgment, but, I believe, to the faculty staff as well, in its special efforts to meet these prevailing conditions.

The number of students in attendance continues to increase. The upswing which recently became apparent has now definitely developed and is a natural result of the recovery of general conditions and activities in the country following the conclusion of the depression, the low point of which was reflected by the number (766) registered in this Faculty in 1935. Since then there has been a distinct rate of increase, there being 789 in 1936 and 833 in 1937. A similar rate of increase will doubtless now continue for a time.

The present "recession", as it has been called, has noticeably affected the activities of industry and some fields of engineering in this country the past year, and this may temporarily influence the attendance in certain of the engineering courses. In the long view, however, it is reasonable to expect a still greater attendance in this Faculty in the next few years. This is desirable because the country still needs young engineers—highly and carefully educated technical and technical-business men.

It is worthy of record at this time, and with respect to the foregoing, that in the past few years the number of young men taking applied science courses in this Faculty who go out into business and work other than engineering, has steadily been increasing. Whereas ten years ago only a small percentage of applied science graduates did this, there are now many more who do so immediately upon graduation. More than ever do young men come for applied science courses who never intend to follow engineering. In the usual course of graduates' progress, it has been noticeable, moreover, that the percentage of those who have been out five and ten years, who have departed from purely professional work and gone into the business side, has very much increased and continues to do so. Engineering graduates from this Faculty are now to be found in large numbers in executive positions in very many industries where they are more concerned with finance, economic, and commercial operations than with technical. A great many have also gone on into banking, finance, law, and purely commercial enterprises, a number into teaching, and some into church and foreign missionary work.

The relative distribution of numbers of students into the various graduating departments is now regaining a proportion more appropriate to the country's probable needs. Those in civil engineering are definitely increasing, which is desirable, as a shortage of young men in this important branch of the profession has already been manifested. The numbers entering mechanical engineering should also increase in proportion, as there is always a strong demand in this field and it will continue. The result of the small numbers which have been entering architecture, a five-year course, now begins to be felt in a distinct shortage, and this will be accentuated with the impetus given the construction industry by the new legislation.

A study of the results of examinations in this Faculty over a period of time, say ten years, discloses several interesting features with respect to the number of students entering and the failures in the first and succeeding years. Emerging from such study, the following observations may be made:—

(1) That when students crowd into a faculty of course, the ratio of failure tends to increase, a natural consequence of attraction to such a course by a greater number of students of diverse abilities.

(2) That ratios of failures in the first year were high in 1931 and again in 1935 and 1936, the former being with a large number in the year on the entrance of the depression, and the latter on its approaching exit, with a hundred students less, but with the first full effect of the operation of the "recommending" process of entrance to the University.

(3) That in the past two years the first year failures have declined, and

(4) That in the past two years the failures in the second, third, and fourth years have also noticeably declined, and for this year it is pleasing to note an increased percentage taking honours, especially in the first two years.

This session the first group of students taking the course in engineering physics established four years ago completed their fourth year, six in number, and graduate this spring. While this is a difficult course, requiring high attainment especially in mathematics, it appears to have attracted a fair number of students, there having been passed this session twelve in the first, ten in the second, and six in the third years.

The course in mining geology, established a year ago, which combines the first two years of mining engineering with the last two devoted mainly to geology and kindred subjects, has already attracted a few students, there having been, this session, seven in the first, one in the second, and two in the third years.

The provision of increased building accommodation is still the outstanding necessity in this Faculty. Hopes have long been entertained that additional facilities could be provided, especially for mechanical and chemical engineering. As each year passes, difficulties, due to lack of space and appropriate equipment, become more acute.

In mechanical engineering the scope and further development of instruction in newer directions is being seriously hindered due to lack of or delay in providing these facilities. The phases of expansion greatly desired, and indeed necessary if the University is to even reasonably keep pace with growing requirements in this field, lie in new laboratories for machine design and open channel hydraulics, and in means of conducting experimental studies by models of river channels and harbours. These latter have now become of great importance with respect to flood control and the resulting property damage. Additional provision is greatly needed for expansion of facilities for instruction and experimental study regarding heat insulation, a subject now much to the front in this country.

In chemical engineering, the necessity of providing increased accommodation has rapidly become more urgent. During the past few years the crowded condition of laboratories in this department, due to greatly increased numbers of students, has become steadily worse. Not only does this crowded condition seriously obstruct the normal course of instruction, but it makes almost impossible the installation of new and much needed equipment, even if the requisite funds for such were forthcoming.

Each succeeding session, the increasing numbers of students moving up into higher years in chemical engineering have very greatly added to difficulties of instruction and have limited its scope. Attention has been drawn to this condition each of the past eight years or more as the members of the staff and the students of this Faculty and department have continuously experienced these conditions becoming more acute, notwithstanding all the efforts, devices, and makeshifts which both staff and students have continued to keep necessary instruction going. These conditions can, in the end, have only one result, even apart from the discouragements which ensue. The efficiency must suffer. Attention has frequently been called to this possibility, almost yearly, having been first reported in 1930.

It is with great regret that, now, after every means appear to have been exhausted, the department of chemical engineering, contemplating the very large classes coming into their third and fourth years, all members needing specific personal facilities, reports that in the forthcoming session the efficiency of instruction will definitely and seriously be impaired. This is most unfortunate in such an important field of education.

Accommodation for metallurgical engineering is now being taxed in a manner that threatens results similar to those already described. This department was provided with accommodation in its earlier days for not more than thirty or forty students in all years. An endeavour is now being made to compress into the same space over twice this number—there being eighty students the past session, and nearly a hundred coming next year. These figures apply only to those registered in the department, and have no relation to the large numbers in those which this department also services.

Research in this Faculty has proceeded as usual during the past session, although under great restriction, due to lack of funds with which to prosecute most desirable researches. The Committee of Management of the School of Engineering Research has held many meetings, particularly during the past term, and a result its structure has been considerably improved, with its membership doubled and its operations provided for by more comprehensive arrangements. Its report on the work of the session is presented separately, but concurrently with this.

It will be observed that thirty-five researches have been carried on by thirty-four different researches, including professors, lecturers, instructors, and specially appointed research assistants. These researches are all carried out in applied science fields directed towards objectives which are hoped to be of specific use in various industries, with which the work in this Faculty is concerned. While all this research effort has produced a degree of satisfaction on the part of the School of Engineering Research and the members of the staff, there is much more to be desired if funds and opportunity in point of available time on the part of the researchers were available. A difficulty encountered in this respect in this Faculty is that the normal and routine work of instruction absorbs so much of the time of the staff during the session that their efforts are limited. and after the session is ended there is but a short time left before this report of the year's work requires to be presented. Many researchers work steadily throughout most of the summer holidays as a consequence.

In the retirement of Professor H. E. T. Haultain at the end of this session, this Faculty loses a most valuable member. Professor Haultain has been head of the department of mining engineering for the past thirty years. since he first came onto the staff. His great ability as a teacher and administrator has resulted in building up a department of which the University and the Province may well be proud. His close contact with the mining profession and the industry generally, and the foundations he has laid in this respect, have been of the greatest value. His efforts and his long and painstaking work in connection with the provision of the new mining mill in 1930 will long be remembered. Perhaps, however, Professor Haultain's greatest contribution has been in his deep interest in the young men going through his department and his concern for them after graduation; this after all is one of the finest attributes upon which a university professor can be congratulated.

(5) REPORT OF THE DEAN OF THE ONTARIO COLLEGE OF EDUCATION

(Dr. J. G. Althouse)

Registration in the Ontario College of Education was slightly lower than in the previous session. Including extramural students the total number of registered was 628. as against 653 in 1936-37. The decrease occurred mainly in the High School Assistants' course, but the proportion of students in this course seeking specialist standing continues to increase.

The current revision of the High School courses of study necessitated the establishment of two new supplementary courses for teachers: home economics and shop work. The supplementary course in music again attracted a large group of students, and the class for Intermediate Certificates in home ecenomics was much larger than usual. On the other hand. the enrolment in physical education and in the public school course was reduced.

The Librarians' course continues to attract classes to the capacity of the school. A revision of the course of training, which has been in process for some time. was greatly accelerated by the decision of the Board of Governors to add a full-time instructor to the staff. The course now devotes approximately one-third of the time to basic technical knowledge and skills, one-third to knowledge of books. and one-third to special lectures and administrative problems.

During the year the Department of Educational Research published Bulletin No. 10. *Bibliography of Canadian Education.* Two forms of a World Geography test were published for use in the elementary school. and two intelligence tests, one for high school grades and the other for the middle grades of the elementary school, were made ready for standardisation. Preliminary work was done on an achievement test in French. Several minor researches were carried out: a study of grades awarded by critic teachers to teachers-in-training; the influence of economic factors on student-teacher enrolment; the reliability of test-item validities. Members of this department participated in a Dominion-wide conference on national research in education. in preparation for the biennial meeting of the Canadian Educational Association.

Mr. G. A. Cline's continued ill-health prevented him fróm assuming his duties throughout the entire session.

The Board of Governors made the following additions to the staff:

Miss Mary E. Silverthorn, M.A., Assistant Professor of Library Science in the Carnegie Library School at Pittsburgh. to be assistant professor of library science in the College of Education;

Miss Ruth E. Ratz, B.A., head of the department of home economics in Jarvis Collegiate Institute, Toronto, to be lecturer in home economics in the College of Education.

(6) REPORT OF THE SECRETARY OF THE FACULTY OF HOUSEHOLD SCIENCE

(*Professor C. C. Benson*)

The work of the Faculty of Household Science has proceeded much as usual this session.

The registration has been about the same as last year, with the majority of the students coming to us from Macdonald Institute, and a few from other universities. With the present entrance requirements and arrangements of courses, it is undoubtedly wiser for most of the students who wish to study Household Science and who come to the university from the secondary schools of the province, to take their work in the Faculty of Arts and to graduate from the course in household economics. In that course, the increase of household science work in the schools has already shown a larger number in attendance here, but the registration in this Faculty is not likely to greatly increase for the present. We are, however, glad to be able to offer opportunity to obtain a household science degree to graduates of Macdonald Institute, and to others from other colleges and universities.

There have been requests during the session for an arrangement for extension work, but as yet it has not seemed advisable to undertake this. The numbers wishing such work are small and the cost would be considerable, but it may be necessary to arrange for summer courses in the future.

(7) REPORT OF THE DEAN OF THE FACULTY OF FORESTRY

(*Dr. C. D. Howe*)

This years graduates from the Faculty of Forestry, six in number, have all found positions, four in governmental services and two with pulp and paper companies. Nearly ninety per cent. of the undergraduates who passed their examinations are employed in forestry work for the summer, being divided about equally between the Government and private companies. The so called recession in the business uptake in the United States has reflected itself adversely on the pulp and paper industry in this country and so on the employment of forestry graduates compared with the conditions a year ago when the Faculty could not supply the demand from the industry. The present situation is undoubtedly a temporary condition in the industry and the former demand for graduates will be restored. The demand for foresters in the governmental services is slowly increasing.

The two new courses introduced into the curriculum last year, namely the course on fish and game conservation and the one on the scaling of timber, the latter given at the Forestry camp, have been carried on with increasing success during the current year.

We had occasion to make a statistical study of our students' origin, pre-university education and employment after graduation, covering the first thirty years of the Faculty's existence. We found that since its establishment four hundred and nine students registered in the Faculty. Of these seventy-seven per cent. came from Ontario and nine per cent. from the other provinces and Newfoundland. Outside of Ontario, New Brunswick has contributed seven students and six each have come from British Columbia, Manitoba and Quebec. Five came from Alberta. Nova Scotia has furnished four, Saskatchewan two, and Prince Edward Island and Newfoundland one each. Fifty-seven students, fourteen per cent. of the whole number, have come from other countries among which Great Britain and possessions lead with twenty-two men, followed by the United States, Holland, Finland and Norway.

Around forty-four per cent. of the three hundred and nineteen students from Ontario came from Toronto and this city has contributed a little more than a third of the students as a whole. The Parkdale Collegiate made the largest contribution to the Faculty, twenty-five men. Jarvis and North Toronto stand next with seventeen and sixteen men respectively. Humberside Collegiate furnished thirteen, Riverdale and the University of Toronto Schools eleven each. Nine of the entrants came from Harbord, seven from Oakwood, five from Malvern, and four each from Bloor and West Toronto Collegiates. The Central Technical School furnished three men. Among the private schools in the city, Upper Canada College leads with eight men, St. Clements contributed two, St. Michael's and De la Salle one each.

It is a significant fact that the Toronto schools furnishing the largest number of men to the Faculty are those that have had principals or science masters with more than the usual interest in the conservation of our natural resources.

Other towns than Toronto in Ontario have contributed one hundred and seventy-seven men representing seventy-six different preparatory schools. Forty-five of these, however, sent only one man each to the Faculty during the past thirty years. Ottawa leads with twelve men. Aurora, Clinton, Kitchener, London and Sault Ste. Marie furnished five men each while Belleville, Brampton, Galt, Hamilton, Peterboro and Woodstock contributed four men apiece.

Of the four hundred and nine men who began the study of forestry in the past thirty years, only two hundred and fifty eight, or sixty-three per cent., completed the course and received degrees. Failure to meet the academic requirements was the chief cause of the men dropping out. Comparing the number entering from Toronto with that from the Ontario towns outside of the city, one can find practically no difference in the number completing the course in the two groups; it is less than one per cent. in favor of Toronto.

The number of living graduates is two hundred and forty-four; of these one hundred and eighty-six or over seventy-six per cent. are employed in forestry or related fields. Pulp and paper, lumbering and allied industries have absorbed nearly one half the forestry group. The various governmental forest services employ about one-third of the remainder. In the next largest group, a little over ten per cent., are included the men who are working in forest entomology, forest pathology, nursery inspection and so forth in other governmental organisations and engaged in aerial patrol, timber estimating, and saw-milling for private companies. Eight of the graduates are teaching forestry in universities, four in this University and four in the United States, one each at the University of Michigan, the University of Washington (state), Purdue University in Indiana, and the New York State College of Forestry at Syracuse University.

Under the classification of pulp and paper, lumbering and allied industries, the distribution of the men is as follows: Ontario forty-seven, Quebec twenty-three, British Columbia six, Manitoba three, New Brunswick two, Newfoundland three, England one, and United States four—eighty-nine men in all.

Ontario leads in the number of men in government forest service with thirty-three men. The Dominion Forest Service comes next with seventeen men. The Forest Branch of British Columbia has six of our graduates, Manitoba three, Saskatchewan two and Alberta one.

The figures given above are based on conditions in December, 1937. The shiftings of the past six months have changed them somewhat but not in essential character.

(8) REPORT OF THE DEAN OF THE FACULTY OF MUSIC

(*Sir Ernest MacMillan*)

An important step has been taken this year in the appointment of Dr. Healey Willan and Mr. Leo Smith as professors in the Faculty of Music. The extension of musical activity in the University, particularly in connection with the new Arts

Course, has rendered full time appointments necessary. As the appointments have been made with the support and co-operation of the Board of the Conservatory of Music, a closer relationship between the University and the Conservatory seems assured for future years.

Dr. H. A. Fricker, who has been a lecturer of the Faculty of Music since the Faculty was constituted in its present form in 1918, retires this year. His colleagues will greatly regret the loss of his valuable advice and co-operative spirit.

Eight students were registered in the new Music Course in the Faculty of Arts and indications point to an increased interest in this course in years to come. Instruction will be undertaken, as heretofore, by members of the Faculty of Music.

During the years 1937-38 the number of students registered for the Mus.B. degree was forty-nine. Eight of these were registered in the first year, sixteen in the second, and twenty-five in the third. The degree of Bachelor of Music was conferred on nine students. No doctorates in music were conferred. The usual series of lectures have been given by members of the Faculty and fourteen students were registered for special tutorial classes.

Four organ recitals have been given in Convocation Hall, arranged by Dr. Healey Willan: one each by Mr. David Ouchterlony, Mr. Maitland Farmer, Dr. Charles Peaker, and Mr. Frederick Silvester.

Early in the autumn, the Carnegie Corporation of New York, at the request of the President of the University and the Conservatory Board, asked Mr. Ernest Hutcheson of the Juilliard Foundation to undertake a survey of the activities of the Toronto Conservatory of Music, and in the light of his experience of similar institutions, to make suggestions which might further the interests of the Conservatory. In spite of the short time at his disposal, Mr. Hutcheson was able to cover a great deal of ground and his report has been of notable value in suggesting direction of future activities. The division of the functions of the Conservatory into three categories has become somewhat clarified:

(1) Training school for professional musicians.
(2) General public school of music.
(3) A public academic body closely connected with the University and exercising an important influence in the general musical life of the community through its examination system and otherwise.

While no drastic changes are contemplated for the present, it is probable that in the course of time these functions will be more sharply differentiated. In the meantime a Summer School has been announced, to be held in July, 1938, and during the coming year courses for full time professional students of the Conservatory are being planned on a broader basis than heretofore in order to establish a definite Senior School.

The sale of the Academy property on Spadina Road should result in easing somewhat the financial problems of the institution and in enabling a greater degree of concentration of its activities.

The Conservatory Choir has appeared in Convocation Hall in the annual performance of Bach's "Saint Matthew Passion" on April 12, and has also sung Mendelssohn's "Elijah" and extracts from Act III of Wagner's "Parsifal" and from Act III of "Die Meistersinger" in Massey Hall with the Toronto Symphony Orchestra. The Choir sang also Pierne's "The Children's Crusade" with the Philadelphia Symphony Orchestra in Massey Hall in May. The Conservatory Orchestra, under the direction of Mr. Ettore Mazzoleni, appeared twice in Massey Hall, and twice in Convocation Hall. Other Conservatory organisations, notably the Conservatory String Quartet, have made valuable contributions to the musical season in Toronto. A new Chamber Music Club formed in the early fall has already attracted a large membership.

At the end of May, 1938, registration for tuition at the Toronto Conservatory of Music showed an increase of nearly three hundred over figures for the previous year. The number of candidates for examinations for the present season has been 13,482.

The musical activities of Hart House have been as extensive as ever and the Hart House Glee Club. under Dr. Charles Peaker. continues to progress. It has been decided to concentrate the Carillon recitals from the Memorial Tower. by J. L. Richardson. into a shorter season in order to enable a larger number of enjoy them during the warmer months.

(9) REPORT OF THE DEAN OF THE SCHOOL OF GRADUATE STUDIES

(*Professor G. S. Brett*)

The number of students registered in the School of Graduate Studies for the year 1937-8 was 583. As compared with the enrolment for 1936-7 this is equivalent to a decrease of 54. The number registered for the Ph.D. was 118. as compared with 134 in the previous year: for the M.A. the number was 173. an increase of 33 over the previous total. The significance of these figures is made uncertain by the fact that students who are in reality proceeding to the M.A. may be registered as graduate students: a total of 205 students were so registered in the current year. The number of men enrolled was 432, showing a decrease of 32 from the previous year: the number of women increased from 137 to 151. It is possible that the decrease in the total enrolment reflects the effect of raising the fees. The decrease of candidates for the D.Paed. accounts for 46 out of the total 54. which shows that the fluctuations in the other subjects was not great.

The number of students resident in the Province of Ontario was 421. a decrease of 51; the number from Toronto was 259 (a decrease of 43) and from the other parts of the Province 162 (a decrease of 8). (For detailed distribution see Appendix B (K).) The number of students from other Province of Canada was as follows:—Quebec 6, Manitoba 28, Saskatchewan 23, Alberta 11, British Columbia 12, New Brunswick 14. Nova Scotia 17. The number from other countries increased from 48 to 51. distributed as follows: Great Britain 2. China 9. Japan 1. Bahamas 1. India 2. Newfoundland 1. Ireland 1. Switzerland 1. Germany 1. U.S.A. 32.

The number of institutions represented in the School was 59. This number includes 17 Canadian institutions. 26 institutions in the United State. 4 English and 12 situated in other countries. The number of students from universities in Ontario other than Toronto was 83. including 31 from McMaster. 27 from Queen's and 25 from Western Ontario. The number of students who had taken their first degree at Toronto was 335.

The distribution of the candidates for the different degrees was as follows:—

Ph.D.	118
M.A.	173
M.S.	3
M.A.Sc.	12
C.E.	1
Mech.E.	1
D.Paed.	46
M.Sc. (Dent.)	1
M.S.A.	20
Mus. Doc.	3

The distribution of the candidates according to the major subject was:—Anatomy 1. anthropology 5. applied mathematics 5. architecture 1. biochemistry 13. biology 30. botany 21. chemistry 10. chemical engineering 10, Chinese archaeology 3. civil engineering 2. classics 18. dentistry 1, education theory 2, electrical engineering 2, English 53, food chemistry 3. geography 2. geology and palaeontology 15. Germanic languages and literature 8. history 31. household science 3. hygiene and preventive medicine 4. law 4. mathematics 10. mechanical engineering 5. mineralogy 3. music 3. pathological chemistry 4. pedagogy 46. pharmacology 3. philosophy 59. physics 36. physiology 9, physiological hygiene 3. political science and economics 23. preventive dentistry 2. professional degrees 2. psychiatry 1. psychology 39. romance languages 27, semitics 8. surgery 3. special committees 20.

The number of students recommended for degrees was:—

Ph.D.	35
M.A.	117
M.S.	2
M.A.Sc.	4
C.E.	1
E.E.	1
D.Paed.	1
M.S.A.	9
D.V.Sc.	2

Fellowships:—Nine Open Fellowships and Scholarships were awarded by the Council of the School on the recommendation of the Scholarship Committee. Other awards, noted below, were made by the Council on the recommendation of the departments or committees concerned.

F. E. L. Priestley, M.A. Alberta, department of English.
Miss M. B. Ellis, M.A. British Columbia, department of romance languages.
A. F. Graham, B.A.Sc. Toronto, department of chemistry.
L. H. Turl, B.A. Toronto, department of physics.
W. Robbins, M.A. British Columbia, department of English.
M. Long, M.A. Toronto, department of philosophy.
W. Paterson, B.A. Manitoba, department of history.
B. M. Springbett. B.A. Alberta, department of philosophy.
Miss M. E. Biehn, B.A. Queen's. department of biochemistry.

Alexander Mackenzie Fellowships:—
W. B. Ross. B.A. Dalhousie, B.A. Oxford, department of history.
D. D. W. Irwin, B.A. Manitoba, department of political science.

Ramsay Wright Scholarship:—
Miss G. W. Workman, B.A. Toronto.

George Paxton Young Fellowship:—
J. G. L. Pearson, B.A. Toronto.

Nipissing Mining Company Research Fellowship:—
D. A. J. McDonald, B.A.Sc. Toronto.

Fellowships tenable in the University of Toronto by students undertaking graduate research were awarded by the respective Committees of Award as follows:—

War Memorial Fellowships:—
E. E. Minett, B.A. Toronto.
J. O. Gorman, B.A.Sc. Toronto.

Maurice Cody Fellowship:—
F. J. Westcott, B.A. Brandon; department of political science.

A Fellowship of the value of $500 has been established for research in problems of personality. This fellowship, to be known as the John Northway Memorial Fellowship, will be awarded annually on the recommendation of the department of psychology. For the year 1938-9 the fellowship has been awarded to Miss M. L. Northway, Ph.D.

Staff Appointments: The number of graduate students holding positions as demonstrators or instructors during the session 1937-8 was 178.

(10) REPORT OF THE DEAN OF THE FACULTY OF DENTISTRY

(*Arnold D. Mason, D.D.S.*)

It is with regret that I report the passing of Dr. C. Angus Kennedy, associate professor of orthodontia, in July, 1937. His unexpected death was a great shock to me as well as the other members of the Faculty. Dr. Kennedy had given years of constructive service not only to the faculty and the dental library. but also in his associations with the general activities of the profession of dentistry. A suitable tablet is being erected to his memory by the Board of Directors of the Royal College of Dental Surgeons and the Ontario Dental Association.

One hundred and eighty-six students registered in the regular dental course this year, three of whom were young women. Twenty young women enrolled in the class in Dental Nursing. Four candidates were registered for the degree of B.Sc. (Dent.), and two of them were awarded the degree this year. In addition to the Ontario students, three students from the Western provinces were enrolled as well as one from New Brunswick and two from the United States. Six graduates from Australia attended the final year, and one graduate of Calcutta Dental College, India, was admitted to the fourth year.

During the year, four graduates attended for post-graduate instruction, one being from London, England, and one from Nova Scotia.

Eleven members of the Faculty have addressed dental associations in various phases of dentistry at twenty-two different centres throughout the province. The Board of the Royal College of Dental Surgeons assisted in the financing of this service to the profession, augmenting the university appropriation.

When Dr. Fulton Risdon was in Winnipeg in February in connection with the Medical Association, he addressed the Winnipeg Dental Society. Dr. Roy Ellis on his way to Aklavik gave lectures and clinics to dental associations at Winnipeg, Saskatoon and Edmonton. When Dr. Frank M. Lott is returning from the Pacific Coast Dental Conference in July, he will speak to dental groups at Lethbridge, Calgary, Moose Jaw, Winnipeg, Port Arthur and Sault Ste. Marie.

The meeting of the American Association of Dental Schools was held at Minneapolis from March 14th to 16th. This faculty was represented by Dr. C. A. Corrigan and myself. En route we visited the faculties of dentistry in Chicago, as well as the dental faculty of the University of Minnesota.

As usual the dental library has been extensively used by the students and the members of the profession. Copies of most of the new dental publications have been purchased. The family of the late Dr. Albert E. Webster has kindly presented his personal library to this faculty. The stack room has been renovated and many duplicate copies of serial journals have been donated to other libraries.

The Graduate Consultation Service has been much appreciated by the profession and 178 dentists have availed themselves of this service during the past year.

Following last year's intensive study of the report of the Curriculum Survey Committee of the American Association of Dental Schools, a study was made of the methods of presenting dental techniques. This has brought closer co-operation and understanding between the teachers in the departments teaching various phases of dentistry, resulting in better instruction to the student. The rearranged time-table has adjusted the hours of teaching in this faculty to coincide with those in other departments of the University and has met with the universay approval of the staff and students.

I believe the feeling between the students and staff of this faculty is very cordial and that this harmonious relationship produces the best possible results.

(11) REPORT OF THE DIRECTOR OF THE SCHOOL OF HYGIENE

(*J. G. FitzGerald, M.D., LL.D.*)

The School of Hygiene was formally established in 1925, but complete organisation was not affected until two years later. That occasion was marked by the opening of the Hygiene Building in June, 1927, funds for the building of which were provided by the Rockefeller Foundation. The demands which were likely to be made upon the School in providing instruction, graduate and undergraduate, in preventive medicine were of course unknown. Modest estimates were made of the accommodation which would probably be required for the School and for the University Section of Connaught Laboratories. Within three years it became manifest that the original building was entirely inadequate in size. So quickly did expansion occur that before the end of 1932 the building was extended to double its original size. The growth of the School and its associated unit, Connaught Laboratories, has amply demonstrated the wide field of service open to them in the Dominion of Canada. The School is now recognised not only as the centre of graduate teaching of public health in this country but also as a training centre for all the provinces and for students from other countries as well. This is the eleventh annual report of the School of Hygiene, and a brief review of some of the developments of the past decade may be recalled.

Since 1927, the number of medical graduates who have completed the course leading to the diploma in public health is 182. These have come from all Canadian provinces and from elsewhere. They are distributed as follows: Prince Edward Island, 1; Nova Scotia, 4; New Brunswick, 9; Quebec, 42; Ontario. 65; Manitoba, 15; Saskatchewan, 5, Alberta, 8; British Columbia, 15; elsewhere, 18. This large group of trained public health workers is now engaged in whole-time service in the field of preventive medicine. This has made for vast improvement in the quality and scope of work undertaken in one of the most important of the social services.

For many years past the Rockefeller Foundation has aided governmental authorities in many part of the world to obtain the services of properly trained persons through the provision of public health fellowships. These have enabled suitably qualified men and women to spend varying periods of study in the School of Hygiene and in similar institutions in other countries. In Canada this arrangement has been supplemented by the creation and award of Connaught Laboratories fellowships in public health. Reference to these has been made in the report of the Director of the Laboratories. Since 1927 no less than seventy-four Rockefeller Foundation and forty-one Connaught Laboratories fellowships have been granted.

This year there has again been an increase in the number of students proceeding to the Diploma in Public Health, the enrolment being greater than in any previous year.

The departments of the School, namely, hygiene and preventive medicine, epidemiology and biometrics, physiological hygiene and the sub-department of chemistry in relation to hygiene have during the session of 1937-1938 provided instruction for 423 students who were enrolled in the following courses:—

A.	*Graduates*	
	Candidates for Diploma in Public Health	18
	Candidates for the degree of Ph.D.	4
	Candidates for the degree of M.A.	3
	Occasional students	2
B.	School of Nursing	57
C.	*Undergraduates*	
	Faculty of Medicine, 5th year	136
	Faculty of Household Science, 2nd and 3rd years	31
	Faculty of Arts, 2nd and 3rd years	63
	Second-year Pharmacy	104
	Fourth-year Physical Training	5
		423

Students in the D.P.H. course came from Alberta (1), British Columbia (3), Manitoba (2), Ontario (2), Quebec (4), New Brunswick (1), Nova Scotia (1), United States (1), India (1), and China (2).

Many important investigations have been undertaken in the various departments of the School during the year. The lines of inquiry have been of two general sorts. In hygiene and preventive medicine the studies of certain aspects of infection and immunity in pneumonia, diptheria. scarlet fever, etc., have been extended in various directions. Many of these undertakings have been carried on in collaboration with health departments in various parts of Canada. This approach to many outstanding problems of the specific prevention of disease has many advantages. It is frequently possible to ascertain facts of theoretical interest and importance while developing practical means of more effectively controlling certain communicable diseases. Despite the great advances of the last two or three decades the number of preventable deaths and the amount of invalidity reported yearly from such diseases as tuberculosis indicate how much remains to be accomplished. Patient, systematic and prolonged inquiry in the laboratory and in the field should in the years to come yield substantial returns. To that end much of the work in this School is directed.

In epidemiology and biometrics very valuable results have been secured in the field of research which bear most pertinently upon the day-to-day problems of the health departments, federal, provincial and municipal, of this country. It is no exaggeration to state that the most stimulating and helpful agency in the promotion of improved public health methods and procedures is that provided by Professor R. D. Defries and his colleagues and associates in their work in epidemiology and cognate branches.

In physiological and industrial hygiene much has been accomplished. In general the scope of activities may be defined as the study of certain physiological functions and the influence of various environmental factors upon them. Naturally attention is directed primarily to the study of those aspects of human physiology which may lead to a better understanding of the factors which maintain and promote health. In the present state of knowledge a most important field of research is that concerned with more exact definition of the normal. This may be approached by repeated, systematic and thorough examination of healthy persons for long periods of time. Just such work is being carried on in the School. Another avenue of approach, experimental rather than purely observational, is also occupying the attention of Professor Best and his colleagues in their studies in cardiology. Then again, the exceedingly important subject of nutrition is receiving more and more attention, and in this field Dr. E. W. McHenry and his group have made highly important additions to present knowledge. The work has been conducted in the laboratory under experimental conditions and dietary surveys have also been carried out in collaboration with other workers. The exceedingly important rôle which nutrition plays in the maintenance of sound health and full bodily vigour is coming more and more to be recognized as being supremely important for the individual and the state. Undernutrition and malnutrition are complex problems which, because of their economic and social aspects, are of very especial interest to those concerned in the promotion of physiological hygiene.

In industrial hygiene further work has been done by Dr. J. G. Cunningham and Dr. H. M. Barrett in the elucidation of health hazards in certain industries. Dr. Barrett and Mr. Johnston have also made a valuable contribution to knowledge of the probable mode of action of certain toxic agents which are widely employed.

The researches to which brief reference has here been made have, in the main, been supported by substantial grants from Connaught Laboratories. More detailed consideration of investigations which have been carried on in those Laboratories will be found in the report of the Director. Some work has of course been done partly in the School and partly in Connaught Laboratories where such an arrangement has been deemed desirable.

During the previous year the Director of the School was engaged in an extended study of the teaching of preventive medicine to medical students in various countries in Europe and North America. The work was undertaken on behalf of the Rockefeller Foundation. An endeavour was made to assertain the extent and character of preventive teaching in medicine at the present time. Altogether more than twenty-five countries were visited, and almost everywhere there is a clear appreciation of the significance of the preventive function of medicine. There appears also to be a determination to extend and improve facilities for suitable instruction of future medical practitioners in hygiene, public health and the preventive aspects of the various clinical branches. To facilitate and promote such efforts some of the great foundations in the United States are contributing very substantially.

The future progress of preventive medicine, as is now clearly realised, depends as much upon an enlightened and alert medical profession as it does upon organised community effort conducted by departments of health. Therefore the school or faculty of medicine has a role to play not second to that of the school of hygiene, in this and every other university, in affording the medical student every opportunity of familiarising himself with his duties, responsibilities and opportunities as a practitioner as well as of curative medicine.

Many visitors from various countries have visited the School during the year. They came from Belgium, Canada, Ceylon, China, England, France, India, Hungary, Jamaica, Japan, Korea, Panama, Roumania, Scotland, South Africa, Sweden, the United States of America, and Yugoslavia. They have always been most welcome, and the interchange of information and opinions has been highly advantageous to members of the staff of the School.

To my colleague Professor R. D. Defries I am deeply indebted for discharging the duties of director during the session 1936-1937.

(12) REPORT OF THE LIBRARIAN

(*W. S. Wallace, M.A.*)

I beg to submit the following report on the work of the University Library for the year ending June 30, 1938.

The number of volumes added to the Library during the year has been 12,894; the number of pamphlets, 3,486; making the total number of accessioned volumes in the Library 352,155, and the total number of pamphlets, 135.395—or a grand total of 487,550.

The following are the statistics of the use of the Library by undergraduates, in comparison with various years:

	1921-22	1926-27	1934-35	1936-37	1937-38
Reading-room books	41,928	106,485	186,605	206,694	194,708
Overnight books	18,998	39.779	107,559	111,572	102,675
Week books	4,782	13.104	23,399	22,820	21.233
Totals	65,718	159,278	317,541	341,086	318,616

The following is a statement showing the circulation in the medical, political science, University College, and law reading-rooms, in comparison with other years:

	1934-35	1935-36	1936-37	1937-38
Medical reading-room:				
reading-room books	10,761	11,195	12.814	11,333
over-night books	11,386	12,219	12.425	10,072
week	3.606	3.622	4,188	3,069
Totals	25.753	27,036	29.427	24,474
Political Science:				
reading-room books	12.567	11.208	9.088	8,956
over-night books	6.890	6.338	4.865	5.438
Totals	19.457	17.546	13.953	14,394
University College:				
reading-room books	33.325	30,746	30,992	28.310
over-night books	17,943	16.466	15.923	13.514
week	......	......	......	593
Totals	51,268	47.212	46,915	42,417
Law reading-room:				
reading-room books	8.822	15.585	22.985	25.981
over-night books	2.870	4.368	4,004	4.302
week	251	524	373	499
Totals	11.943	20,477	27,362	30,782

The decrease here shown in circulation of books among undergraduates, which is the first noted in the Library for many years, is probably due in part at least to the fact that the University opened last autumn, because of the epidemic of infantile paralysis, a week late. This, however, does not wholly explain the decrease, since the circulation during the term itself showed a decline, except in the law reading-room. It would seem that we have now reached the peak of the phenomenal increase in the circulation of books among undergraduates that has taken place during the last twenty years.

The following is a statement showing the total circulation in the Library during recent years:

	1925-27	1934-35	1936-37	1937-38
To undergraduates	159.278	317.541	341.086	318.616
To professors and graduates	20,000	40.843	39.437	41,067
Totals	179,278	358.384	380.523	360.223

These figures are exclusive of books taken for consulation from the reference shelves, of which 28.092 have been replaced by the library assistants in the main library during the past year; and of course they take no account of the very considerable circulation of books in some of the departmental libraries.

The number of interlibrary loans continues to increase. During the year the Library has handled 851 interlibrary loans, as against 742 last year; 497 of these books being lent, and 354 books borrowed.

During the past year the binding and mending department prepared for binding 3.787 volumes, mended 2.301 volumes, and placed in pamphlet binders or boards 1.502 volumes. Library of Congress cards filed, temporary file, 40.667; permanent file, 85.045.

In addition to their ordinary work, the staff of the circulation department in the Library have this year revived the *Canadian Periodical Index*, which ceased publication in 1931. The staff had already embarked on the preparation of a card index of Canadian periodicals for their own use in reference work, when Mr. Angus Mowat, the recently appointed inspector of public libraries in the province of Ontario, kindly offered to print a Canadian periodical index in the *Ontario Library Review*, if any library would undertake to provide him with the copy. The circulation staff of the University Library took up his challenge, and the first quarterly installment of the revived index appeared in the *Ontario Library Review* for March, 1938. Already we have had numerous letters of congratulation and expressions of gratitude from librarians not only all over Canada, but in the United States. It would seem to be everywhere regarded as a genuine contribution to reference literature. It is hoped that at the end of each year the quarterly issues of the index will be cumulated.

Since I submitted my report last year the University Library has installed a library projector for reading microfilms. The growth of the use of microfilms in place of interlibrary loans made the installation of this projector a necessity, and it has proved its usefulness on a number of occasions. Its use, however, has yet been such as to suggest that microfilm is going to work the revolution in libraries that some people have anticipated.

During the past year the University Library has received from Dr. J. B. Tyrrell a valuable collection of geological periodicals; and by bequest from the late Mr. George H. Armstrong, the author of *The Origin of place-names in Canada* a remarkably fine collection of books relating to Canadian history and geography, as well as to education. I should like also to report that during the past three or four years a graduate of the University has annually placed at the disposal of the Library a sum of money for the purchase of books in psychology or law; and the Department of Mathematics is placing at the disposal of the Library the sum of $500 received by it as a prize won in the William Lowell Putnam Mathematical Competition. In this connection I should like to explain that special bookplates with appropriate inscriptions are inserted in books bought out of such special funds, and that there are few ways in which a name may be more suitably commemorated.

Once again I beg to bring to your attention the increasingly congested conditions in the University Library, both as regards space for books, space for readers, and space for library workers; and to commend to you the faithful service of my assistants in the Library, rendered in circumstances which are becoming increasingly difficult.

(13) REPORT ON RESEARCH

Anatomy, under direction of Professor J. C. B. Grant

During the summer vacation the head of the department made an anthropological study of the Stonley Indians who live in Alberta. He also completed a text-book of Anatomy on which he had been engaged for some years. This was published by Messrs. William Wood & Company, and is entitled, "A Method of Anatomy, Descriptive and Deductive".

Dr. R. K. George has collected many data on details of anatomical interest, e.g., the numbers and locations of the valves in the spermatic veins; pelvic diameters in relation to inguinal hernia.

Dr. C. G. Smith carried out experiments on rats to determine the effect on the olfactory mucous membrane of zinc sulphate solution used as a prophylactic in the poliomyelitis epidemic. It was found that this treatment led to a rapidly progressing degeneration of the olfactory sensory area culminating in sloughing of the olfactory nerve cells or in their complete degeneration and removal by the end of one week. Following this the surface was relined by non-sensory ciliated columnar epithelium. (This was completed by the end of the second week.) Observations were continued for two months after the treatment but no regeneration of the sensory olfactory cells could be recognised. The olfactory centres of the brain at the end of two months were markedly atrophic. Since the survey of the cases which received the zinc sulphate treatment during the epidemic last summer reveals a number with permanent loss of the sense of smell, it would appear that the injurious effects found in these animals occurs also in man, and that the treatment should be appreciated as being far from harmless.

Mr. H. E. Lemasurier in collaboration with the Poultry Department of the O. A. C. of Guelph, has made a radiological study of the growth of the skeleton of the chicken to six weeks of age. This work resulted in three reports (in press) with the following titles:—(1) A radiological study of the development of the fowl to six weeks of age on a mineral deficient ration. (2) The relation of the mineral supplement consumption to the normal skeleton development in males and females of various breeds of fowl to six weeks of age. (3) Some observations on the development of the fowl to six weeks of age.

Under Dr. A. W. Ham's direction:

Dr. K. Baldwin has been studying the various transitions in the histological structure of the alveoli of the lung from early foetal life until the time of birth, in rats, rabbits and guinea pigs, with a view to determining whether intra-uterine breathing motions, which distend the foetal alveoli do so by stretching the alveolar epithelium or by bursting through into the mesenchyme. This study is being pursued.

Miss Chapman, a graduate student and Dr. Ham have been trying to find a means whereby the growth stimulating effects evinced by certain hormones in vivo could be studied in vitro, their purpose being to learn something of the mechanism by which this influence is exerted. In pursuing this study it was first necessary to find a means whereby some hormone could be caused to accumulate in the blood in concentration sufficient to allow a small quantity of blood to remain active in this respect for several hours. Trial experiments have been successful. This study is being pursued.

Mr. Keenan and Miss Winston. students in Histology Option Course, investigated the possibility of a uterine hormone being concerned in the oestrus cycle by removing uteri and studying daily vaginal smears. They found, in contrasts to some results reported by similar studies in other animals, that the oestrus cycle was not markedly altered.

Miss Fleming, taking the same option, with Dr. Ham and Dr. George, investigated the effect of longitudinal growth of bone on the position of tendon insertions and muscle origins.

This year, as last year, the scope of the research of the department has been considerably enlarged by co-operative research with the department of paediatrics. With Dr. Tisdall and Dr. Drake, of that department, Dr. Ham has engaged in several experimental studies, e.g., on the cause of parathyroid gland hypertrophy: the action of vitamin D in large doses which is being studied by chemical analysis and histological studies of the same tissues.

Applied Mathematics, under direction of Professor J. L. Synge

B. A. Griffith, Ph.D.: Investigations are being conducted on the theoretical stability of viscous liquid contained between a rotating cylinder and a coaxial cylinder suspended by a torsion-fibre, as in a standard method employed in the measurement of viscosity.

G. E. Hay, M.A.: By the use of elliptic functions, last year's work on the torsion of certain prisms has been shortened and improved.

Teeth are held in their sockets by the thin periodontal membrane, which may be regarded as an elastic solid of small compressibility. The stress in the membrane and the displacement of the tooth under load have been investigated, and the results compared with those previously obtained by Professor Synge for an incompressible membrane. These investigations have been carried out under a scholarship of the National Research Council of Canada.

W. D. Rannie, M.A.: Various approaches to the problem of the stability of a viscous liquid flowing between fixed parallel planes have been tried, and work is now in progress on a method in which the characteristic functions of the problem are approximated to by polynomials.

A. F. Stevenson, Ph.D.: The variational method which has been much used in approximate calculations in quantum mechanics furnishes an upper limit to the theoretical energy levels. It is desirable to find also a lower limit in order to estimate the error. A method due to Weinstein for obtaining such a lower limit has been put on a somewhat more rigorous basis and the technique of the method improved. Calculations have been made, in collaboration with Professor M. F. Crawford of the department of physics, for the normal state of helium, with satisfactory results.

J. L. Synge, Sc.D.: New sufficient conditions have been obtained for the stability of a viscous liquid flowing between fixed parallel planes.

The preparation of an address on "Hydrodynamical Stability" for the Semi-Centennial of the American Mathematical Society has provided an opportunity to collate the various methods which have been employed and to suggest approaches to the discussion of general types of disturbance.

For liquid contained between two rotating coaxial cylinders, a sufficient condition for stability has been obtained without assuming the distance between the cylinders small, as in the work of G. I. Taylor.

Astronomy, under direction of Professor R. K. Young

General Programme

At the David Dunlap Observatory the programme of radial velocities of 500 stars in and near the Kayteyn areas is nearing completion. During the progress of this work 26 new spectroscopic binaries have been discovered and 69 others are suspected of being variable in velocity. 1125 plates were secured on this programme and the measurement of these plates and arrears from the last two years have been completed by Miss Northcott, Miss Patterson and Mr. MacRae. A comparison of the results of about 50 stars which have been observed elsewhere shows that the systematic errors are small and that the probable error is satisfactory.

During the year five papers were presented at various astronomical meetings.

Spectroscopic Work

Dr. Hogg has completed the four binary orbits H.D. 25638, 25639, 206155, 183794 and taken plates for the improvement of the orbit of H.D. 34762 and for testing short period variations in H.D. 58715. Dr. Millman has made a photometric study of the surface features of Mars and finds that the dark markings are relatively rich in blue and violet light but that the results lend no support to the generally accepted view that this represents chlorophyll reflection. Dr. Heard has completed the orbit determination of H.D. 142926 and obtained plate for an orbit of H.D. 219634. Dr. Heard has also continued his investigations on the spectrum of *y* Cassiopeiae.

Newtonian Focus

Dr. H. S. Hogg with the assistance of Dr. F. S. Hogg and others has obtained 91 direct photographs of globular clusters. About a dozen new variable stars have been found from D.D.O. plates in the important clusters N.G.C. 6205, 6366, 6779. A few more periods have been derived in the cluster N.G.C. 6402, but as this is a difficult object, with 72 known variables, it is expected that work on this cluster will extend over several years. The period of two variable stars in Messier 10 and 12 have been determined. A catalogue of all variables known in globular clusters has been made, giving data and magnitudes, periods and positions.

Meteor Research

The photographic and visual observation of the major meteor showers was carried out by Dr. Millman as in other years. One meteor spectrum was photographed as a result of exposure times totalling 53 hours with the meteor spectrograph, and eight direct meteor trails were secured in a total exposure of 23 hours. Five of the above photographs were secured with the rotating shutter. Twelve direct photographs were also secured at co-operating stations.

Instrumental

During the year a self-recording microphotometer was constructed in the observatory workshop. It is hoped that this instrument will be of great help in analysing the spectra already secured. The upper end of the 19-inch reflector has been remodelled so that it is rotative. This makes the instrument much more convenient to operate.

Biochemistry, under direction of Professor H. Wasteneys

Directed by Professor Wasteneys:

Mr. B. F. Crocker and Dr. Paul Hamilton have continued their investigations on digestion in dogs. They have confirmed their previous observation that as to the amount of protein fed to the animals is increased, the time required for digestion increases while the percentage digestion decreases.

The addition of fat to a protein meal was found to increase the time needed for digestion and also the amount of digestion.

They are now investigating a method of labelling the food protein in order to distinguish the products of its hydrolysis from those of the proteins in the digestive secretions.

Dr. H. B. Collier, professor of biochemistry, West China Union University, and now on leave of absence, has been engaged in a study of the factors determining the rate of synthesis of ‘plastein’ by the enzyme papain.

Directed by Professor G. F. Marrian:

Dr. G. C. Butler has continued his studies on the nature of the steroids present in the urine of women suffering from virilism of adrenal origin. A sufficient number of new steroids have been isolated and chemically characterised to enable an attempt to be made to outline some of the main metapolic paths of these compounds in the body. These researches promise not only to throw much light upon the etiology of adrenal virilism, but also to establish facts of considerable fundamental importance bearing on the problem of steroid metabolism.

Dr. A. D. Odell has continued his research on the constitution of the substance $(C^7H^{12}O)^n$ which occurs in the urine of pregnant mares. Evidence has been obtained which very strongly suggests that this substance is a pregnane or allopregnane-3 (*a*), 6,20-triol formed by reduction and addition of water from the hormone of the corpus luteum-progesterone. Dr. Odell has been granted a Banting Fellowship for three months to enable him to continue and extend this work during the summer months.

Mr. B. Schachter, who is in receipt of a Banting Research Fellowship, is completing his research on the methods of isolation and the identification of the conjugated oestrogens in the urine of pregnant mares. Several new crystalline substances have been isolated which it is hoped will shortly be fully characterised. Mr. Schachter has also been engaged in attempts to isolate in a pure state the gonadotropic factor present in the urine of pregnant women.

Mr. W. Fishman has been successful in elaborating an efficient method for the extraction and purification of the enzyme *B*-glucuronidase from spleen and other organs. He has made a study of the distribution of this enzyme in various tissues and organs, before and after the administration of glucuronogenic substances. The results he has obtained are of considerable significance in the whole problem of the detoxification mechanisms in the animal body. Mr. Fishman will shortly be applying some of his findings to certain problems in connection with sex-hormone metabolism.

Mr. M. Darrach has obtained results which indicate that the coloured substance formed in the Kober test for oestrogens is an oxonium salt of 16,17-diketo-3-hydroxyoestratriene. This finding has enable him to elaborate several qualitative tests which make it possible to detect oestriol in the presenc of other oestrogens. One of these tests has been found suitable for quantitative work. Preliminary experiments suggest that 16.17-diketo-3-hydroxyoestratriene may be a normal end-product of oestrogen metabolism in the animal body.

During the past year a special laboratory has been equipped with apparatus for the micro-determination of carbon, hydrogen, sulphur, nitrogen, sodium and potassium, in organic compounds, in order to facilitate the identification of new compounds isolated in the research laboratories. Miss Dorothy Skill has been in charge of the work and has organised it with very commendable efficiency. This new departure has been of the utmost value in the various research problems in progress in the department.

Directed by Professor A. M. Wynne

Miss E. Macpherson B.A. studied methods of increasing the purity of preparations of pancreatic lipase, with the aim of using the enzyme in an investigation of its synthetic action.

F. L. Root, M.A. (Stanford), has investigated the improvement and application of methods for the analysis of mixtures of volatile fatty acids and of alcohols occurring in fermenting media.

J. Tuba, M.Sc. (Sask.), has undertaken a study of factors which affect the amount of enzymes such as phosphatase and invertase formed by yeasts and moulds during their growth in synthetic culture media.

Biology, under direction of Professor E. M. Walker

The following summary includes investigations in progress, published or in course of publication, for the year 1937-1938:

Vertebrate Anatomy

By Professor W. H. T. Baillie—Studies on the eye reactions of fishes, amphibians, reptiles and mammals; beginning of the eye movements in developing fishes and amphibians; position and relationship of the semicircular canals of the ear in elasmobranchs and their homologies in the mammalia; investigations of a skin outgrowth in an amphibian that simulated an anterior limb with defective development of the muscular and bony parts.

Invertebrate Zoology (including entomology and parasitology)

By Professor E. M. Walker—Cervical and thoracic exoskeleton and musculature of Grylloblatta (completed); faunistic and distributional studies of Odonata of British Columbia, Saskatchewan and Ontario.

Under the direction of Professor E. M. Walker:

C. G. Bucher—Anatomy of Monodontomerus dentipes, a chalcid parasite of the pine sawfly *Diprion simile.*

Mrs. E. Kuitunen-Ekbaum—Life history of *Philometra americana*, a dracunculid nematode parasite of certain flounders, blennies and clingfish (completed); experimental infection of dogs and cats with plerocercosid larvae of Diphyllobothrium sp. from lake trout.

G. M. Neal—Distribution of pelagic Rotifera in British Columbia.

H. H. J. Nesbitt—Anatomy of the nervous system of insects.

H. B. Wressell—Effect of temperature on egg-laying in the European Corn Borer.

Marine Biology

By Professor A. G. Huntsman—Movements of Canadian Atlantic salmon kelts, as shown by tagging experiments and in relation to the environment.

Under the direction of Professor A. G. Huntsman:

A. A. Blair—Factors affecting the growth of salmon parr and smolts, principally as shown in the scales.

P. F. Elson—Factors determining movement of the trout, *Salvelinus fontinalis*, particularly the effect of temperature.

C. J. Kerswill—The Oyster fishery of the Bras d'Or region of Cape Breton Island; the Pteropoda of the Belle Isle Strait Expedition of 1923 and the Canadian Fisheries Expedition of 1915.

H. M. Rogers—Marine fauna of the eastern Canadian Arctic (field work with the Eastern Arctic Patrol); the life history of the capelin, *Mallotus villosus*, of the Miramichi region, New Brunswick.

Mr. H. C. White of the staff of the Fisheries Research Board of Canada was given accommodation in the laboratory for the study of the food of kingfishers and mergansers of the Margaree River, Cape Breton.

Vertebrate Embryology

Under the direction of Professor A. F. Coventry:

S. H. Chambers—Comparative study of the umbelical hernia and its relation to the definitive arrangement of the coils of the alimentary canal.

Miss A. M. Ironside—Study of the corpus luteum of *Peromyscus* with special reference to its behaviour during immediately successive pregnancies and in different seasons.

Animal Bionomics, Mammalogy and Ichthyology

By Professor A. F. Coventry—Continuation of studies of population of small mammals in Ontario. Data have been collected in the neighbourhood of Toronto, in Algonquin Park, in Temagami and in Kapuskasing.

By Professor J. R. Dymond—Taxonomy and distribution of the fishes of Algonquin Park and Ottawa Valley; ecology and distribution of fishes of King Township; York County, Ontario.

Under the direction of Professor J. R. Dymond:

A. H. Carter—Life history of fishes of the genus *Nocomis*.

Miss I. Limbert—Distribution of fishes in Ontario.

J. M. Speirs—Studies of bird migration at Toronto (completed).

Genetics and Human Biology

By Professor J. W. MacArthur—Methods of diagnosis of twins and multiple birth sets by the use of skin ridges and other characters.

By Professor J. W. MacArthur in collaboration with Professor Norma Ford—Studies of the Dionne quintuplets, an identical set.

By Professor J. W. MacArthur in collaboration with L. Butler—The mode of inheritance of a quantitative character (size).

By Professor J. W. MacArthur in collaboration with Dr. A. N. Langford—Development at Vineland of a commercial greenhouse tomato immune to brown mould.

Under the direction of Professor J. W. MacArthur:

L. Butler—Analysis of fruit size inheritance in the tomato.

Miss V. Engelbert—Reproduction, cytology, genetics and species relationships in a group of species of blue grass (*Poa*).

Mrs. M. Richardson—Intelligence quotients in social problem children and their sibs and parents.

A. Wilkes—Causes of varying sex ratios in parasitic Hymenoptera (Monodontomerus).

Mrs. F. H. Miller—Comparison of human hand and foot prints.

By Professor Norma Ford—A study of two sets of quintuplets loaned by the Royal College of Surgeons, England. (Examinations have been made of their dermal ridges and other physical characters and x-ray photographs to determine whether the sets are mono- or polyzygotic); assembling of data regarding two unpublished cases of quintuplet births, Canadian and Italian; further investigation of the blood vascular system in the placentae of multiple births, correlating the findings with the degree of similarity of the twins or triplets (in co-operation with four Toronto hospitals).

By Professor Norma Ford in collaboration with Professor J. W. MacArthur—A biological study of the Dionne quintuplets, an identical set.

Under the direction of Professor Norma Ford:

Miss M. Macdonald—Plantar patterns in mongolian idiots compared with their palmar patterns.

Miss G. Workman—Palmar patterns in mongolian idiots and the occurrence of similar patterns in normal individuals.

Comparative Neurology

By Professor E. H. Craigie—Morphology of the capillary supply in the brains of amphibians (completed): quantitative study of the vascularity of the frog's brain and of the hypophysis of the frog (completed); vascular supply of the hypophysis of tailed amphibia; summarisation of existing literature on the Comparative anatomy and embryology of the capillary bed of the central nervous system.

Limnology

By Professor W. J. K. Harkness—Comparative limnological studies of trout waters in the districts of Nipissing, Muskoka and Southern Ontario.

Under the direction of Professor W. J. K. Harkness:

F. E. J. Fry and W. A. Kennedy—The life history and controlling factors in the production of the lake trout (*Cristivomer namaycush*) in the lakes of Algonquin Park.

R. R. Langford, W. R. Martin and V. E. F. Solman—Seasonal variation of plankton populations; comparative measurements of vertical distribution of plankton; plankton, small fish relations and vertical movements of small fish.

K. H. Doan—Ecology of small-mouthed black bass.

R. B. Miller—Ecology of lake living Chironomidae.

By Dr. F. P. Ide—Quantitative determination of insect population of Costello Creek, Algonquin Park, Ont. J. B. Buchanan assisted in the making of collections under direction.

Experimental Biology

By Professor K. C. Fisher—Investigations on the nature and mechanism of the rhythmicity of the heart; effect of temperature on heart rate; development of apparatus to follow spectroscopically the rate of certain chemical reactions inside living cells which are concerned with the mechanism of oxygen utilisation.

By Professor K. C. Fisher in collaboration with Dr. D. W. G. Murray of the Toronto General Hospital—Possible application to the control of intravenous injection of the electron tube relay with a time delay feature.

By Professor K. C. Fisher in collaboration with Dr. John Cameron University of Missouri—Relation of light intensity and temperature to the rate of the carbon monoxide poisoned heart.

By Professor K. C. Fisher in collaboration with Dr. Richard Ohnell of Stockholm—Relation of cyanide concentration to the heart rate.

Under the direction of Professor K. C. Fisher:

C. Armstrong—Respiratory mechanism of the frog heart; specificity of sodium azide, a new respiratory inhibitor, on the embryo fish heart.

Miss R. D. C. Martin—Measurement of the respiratory exchange of damsel fly nymphs; a method to investigate the inter-relations of temperature and oxygen partial pressure and the stage of development.

W. B. Stallworthy—Assembling of apparatus for the maintenance of constant known humidities to be used in the investigation of the water balance in land Isopodo in relation to the distribution of species.

Botany, under direction of Professor R. B. Thomson

Phanerogamic Botany and Genetics

Anatomy and Experimental Morphology

Bannan, M. W.—A study of the variations in wood structure in the native conifers and determination of the relationships between such variations and the ecological conditions under which the trees grow.

Haldenby, C. N.—The origin and distribution of horizontal resin canals in the conifers.

Hull, Kathleen L. & Thomson, R. B.—The anatomical organisation of *Lycopodium* and *Selaginella.*

Thomson, R. B.—The comparative anatomy of the male and female cone scales of the conifers.

Thomson, R. B. & Hull, Kathleen L.—The organisation of the sporeling of *Osmunda and of the lower vascular plants.*

Wright, J. Gertrude—The nature of the pit-closing membrane in the higher gymnosperms.

Taxonomy

The total number of specimens identified, mounted, stamped, recorded and actually distributed in the herbarium during the year was 11,472.

Krotkov, P.—Plant survey work in the Bruce Peninsula; revision of the herbarium material; special study of Ontario willows and golden rods.

Taylor, T. M. C.—(1) A critical study of the genus *Woodsia*.
(2) Plant survey work in the Thundred Cape and Schreiber areas, in co-operation with the National Museum of Canada. A report on the collection from the former area has been completed, and in connection with the latter a report is in course of preparation.

Genetics

Wright, J. Gertrude—A study of abnormal types of *Linaria vulgaris* and their heredity.

Mycology, Forest Pathology and Cryptogamic Botany
(Under the direction of Professor H. S. Jackson)

Bier, J. E.—A study of Hypoxylon Canker of *Populus*.

Cain, R. F.—A taxonomic study of Ontario Sordariaceae and related Sphaeriales.

Groves, J. W.—Cultural studies of certain canker forming species of *Dermatea*, *Pezicula*, *Godronia* and related forms. (In part submitted for publication.)

Jackson, H. S.—(1) The mycological flora of the Toronto region and of the Temagami Forest Reserve.
(2) A taxonomic study of Ontario Thelephoraceae.

Lehmann, A. J. V.—A study of the nuclear phenomena of the germination of teliospores of certain species of *Lepto-Puccinia*.

Macrae, Ruth—A study of phosphorescence in *Panas stipticus*.

Skolko, A. J.—A cultural study of *Aleurodiscus*.

There have been 4,735 specimens added to the Mycological herbarium this year and the collection now totals 63,470.

Plant Ecology and Seed Studies
(Under the direction of Professor H. B. Sifton)

Structural Ecology

McPherson, D. C.—On the structure, form and development of air spaces in roots.

Sifton, H. B.—Leaf development in Labrador Tea.

Watson, W. R.—Development studies of leaf structure as related to light.

Seed Studies

Anderson, E. C.—Longevity of weed seeds.

Hamly, D. H.—New apparatus for the investigation of light relationships in seeds.
Stereo-photomicrography of seeds.

McGugan, Jean E.—Identification of seeds and seedlings of the Genus *Brassica*.

Sifton, H. B.—Effects of temperature, light, water and oxygen supply on the germination of *Typha* seeds.

Collection and identification of seeds. During the year 2,120 additions were made to the reference collection. Total, 13,675.

From the seed laboratory, two papers were presented by special invitation during the year. The first, by D. H. Hamly on the subject of seed photography was given before the 1937 convention of the International Seed Testing Association at Zürich, Switzerland, while the second, by H. B. Sifton, on seed collections, is to form a section of the manual on seed testing being compiled by the Association of Official Seed Analysts of North America. Both these associations are composed of professional Seed Analysts and they rarely ask for contributions except from their own members.

Plant Physiology
(Under the direction of Professor G. H. Duff)

Brodie, Anne B.—Tissue protein impairment induced by starvation has been studied in its effect upon respiration, respiratory quotient, water relations and chlorophyll content. The results have been presented in a thesis submitted in partial fulfilment of the requirements for the Ph.D. degree.

Clendenning, K. A.—The metabolism of the tomato fruit in relation to its storage. Biochemical studies of the proteins, carbohydrates and acids of the fruit have begun in collaboration with the Cold Storage Research project of the Ontario Agricultural College. Special acknowledgment is made of the financial support and facilities provided for the summer work by the College.

Duff, G. H.—The sugars of the wheat leaf, their concentration gradients and relation to cell heterogeneity within the leaf.

Duff, G. H. & Forward, Dorothy F.—The rate of inversion of non-reducing, reserve sugar as a determinant of metabolic activity.

Plant Pathology

(Under the direction of Professor D. L. Bailey)

Except where otherwise stated, these researches are being carried on in co-operation with the Vineland Horticultural Experiment Station.

Bailey. D. L.—(1) Strawberry root-rot.
(2) Disease of ornamentals.
(*a*) Cytospora disease of Koster's blue spruce.
(*b*) Suspected virus diseases of lilies and Gladiolus.

Langford, A. N.—The development of a suitable greenhouse tomato resistent to *Cladosporium fulvum.*

Mead, H. W.—A comparative study of some seed-borne diseases of barley. In co-operation with the Dominion Plant Pathological Laboratory, Saskatoon, Sask.

Newell, P. G.—Bacterial leaf spots of tobacco. In co-operation with the Dominion Plant Pathological Laboratory, St. Catharines.

Simmonds, S. A.—Factors influencing the fungous flora of raspberry roots.

Wooliams, G. E.—Fusarium wilt of Zinnia. In co-operation with the Dominion Plant Pathological Laboratory, Summerland, B.C.

Cytology

(Under the direction of Dr. L. C. Coleman)

Coleman, L. C.—(1) The cytology of Gasteria and Gasteria X Aloe hybrids.
(2) The cytology of *Veltheimia viridifolia.*
(3) The preparation of Basic Fuchsin for the Feulgen stain (note ready for publication).

Coleman. L. C. & Haldenby. C. N.—The cytology of Scilla species.

Hillary, B. B.—(1) The Feulgen nucleal stain and its use in Cytology.
(2) Permnanet preparations from rapid cytological technics (in press).

Chemistry, under direction of Professor F. B. Kenrick

Forty-two students were engaged in research during last winter under the direction of members of the staff of the Department of Chemistry.

The degree Master of Arts was conferred on twelve of these, viz:—Messrs L. D. Finlayson, W. G. O. Hines, E. A. Hollingshead, F. L. W. McKim, J. H. Michell, W. A. Patterson, G. W. Rogers, Miss J. C. Romeyn. Messrs. J. Seath. G. A. Stewart, M. H. Thomas. G. E. Willey; also on Mr. J. H. Johnston, who worked under Dr. Barrett in the department of physiological hygiene, and on Mr. M. O. O'Sullivan who worked under Dr. Franks in the department of Banting medical research.

The Degree of Master of Science in Agriculture was conferred on Messrs K. G. McPhee. C. P. Rivaz, A. O. Walberg who worked in the laboratories of the Ontario Agricultural College under the direction of Professor Ruhnke.

The Degree of Doctor of Philosophy was conferred on Mr. H. J. Bernstein, whose research was done under Professor W. H. Martin. and on Mr. K. K. Kay who worked under Dr. Barrett in the department of physiological hygiene.

The following were the subjects of research:

R. W. Allgood—The transport numbers of magnesium chloride in aqueous solution.
Professor F. Beamish—Estimation of Ruthenium in ores;
The determination of the efficiency of pot assays for the platinum metals.
H. J. Bernstein, M.A.—The Raman effect and the chemical bond.
H. D. Bett—The photodecomposition of chlorine dioxide in carbon tetrachloride solution.
A. McG. Birks—Preparation of ethyl aminofuroate picrate.
W. H. Brown, B.A.—New reactions and new types ot formic esters.
W. K. Buchanon—Sour taste of buffers.
D. M. Burpee—Analysis of lead-assay button.
M. Cohen, M.A.—Adsorption of gases on solids.
B. D. Deacon—The condensation of acetoacetic acid with glyceric and glycolic aldehydes.
L. D. Finlayson, B.A.—The solubility of carbon dioxide in various solutions.
Prof. H. O. L. Fischer—Chemistry of trioses; optically active fats; derivatives of glyceric acid.
I. G. Goddard—The germination of mushroom spores.
Prof. A. R. Gordon—Calculation of thermodynamic quantities from spectroscopic data.
Miss E. A. Grant—The Williamson ether synthesis with ethylene chlorohydrin.
W. G. O. Hines, B.A.—The activity coefficient of magnesium salts in aqueous solution.
E. A. Hollingshead, B.A.—Differential diffusion constants of electrolytes in aqueous solutions.
W. A. James, M.A.—The differential diffusion coefficients of electrolytes in aqueous solutions.
A. A. Janis, M.A.—The Vapour tensions of aqueous solutions of non-volatile salts by the Isopiestic method.
L. F. King, M.A.—The rates of reaction of alcohols and esters in an alkaline medium.
A. H. Klopp—Bromination of furan.
D. J. LeRoy, M.A.—The transport number of the alkaline acetates in aqueous solutions.
Prof. F. Lorriman—The alkaline reduction of 9-nitro-anthracene.
Miss H. G. Macmorine—The preparation of 3-hydroxy acenaphthene.
C. Marchant, M.A.—Bios.
J. W. McCutcheon, M.A.—The isomers of linolenic acid.
F. L. W. McKimm, B.A.—The preparation of solids by centrifuging in neutral liquids.
R. N. Meals, M.A.—The mechanism of the Fuziwara Reaction.
J. H. Michell, B.A.—The synthesis of various glycerides.
J. L. Monkman—Presence of cyanide in cadaveric material.
W. M. Orchard, B.Sc.—The paration and properties of coniferin and related substances.
M. A. Partridge—The use of citraconic anhydride in the Diels-Alder Reaction.
W. A. Patterson, B.A.—The effect of temperature change on the diffusion of copper in a solution of copper sulphate.
Dr. J. J. Rae—The role of phosphoric esters in metabolism with particular reference to their occurrence in urine and their possible significance in mental cases.
G. W. Rogers, B.A.—The vapour pressures of volatile liquids and adsorption phenomena.
R. G. Romans, M.A.—Photochemical reactions.

Miss J. C. Romeyn, B.A.—The sporulation of yeast.

Miss C. J. Sanderson, M.A.—The influence of inositol, *0*-alanine, 1-leucine and Bios IIB on different varieties of yeast.

J. Seath, B.A.—Analytical methods for the determination of metals of the platinum group.

S. Shankman, M.A.—Vapour tensions of sulphuric acid solutions.

R. S. Soanes. M.A.—Carbon arcs.

Dr. Helen Stantial—Purification of Bios IIB.

G. A. Stewart, B.A.—Base-exchange in zealites.

M. H. Thomas, B.Sc.—The kinetics of isomerization of 2-butene.

M. Wayman, M.A.—Purification of Bios IIB.

Dr. F. E. W. Wetmore—Electric thermoregulators.

G. E. Willey, B.A.—Distribution of potential in the carbon arc.

Dr. G. F. Wright—Synthesis and properties of coniferyl alcohol;
Isolation of the carbohydrate from the pine lignin-carbohydrate complex.

Food Chemistry, under direction of Professor C. C. Benson

The research work in this department during the present session has, as usual, been concerned with the chemistry and analysis of foods.

Two students have completed work for the Master's degree. One of them working on the distribution of pectin in apples during ripening and storage, and the other trying different methods of estimation of carbon dioxide in baking powders and making studies of rates of reaction of such materials.

Other students in this department have been concerned with analysis of foods which have not yet been sufficiently tested, and this work is being continued.

Household Science, under direction of Professor J. B. Brodie

During the session 1937-38 there were four graduate students doing work in this department. Three of them were engaged in research and one was granted her M.A. degree.

Miss A. M. Musgrave began work on "Baking Tests for Baking Powders."

Miss E. F. Lamon, working under the direction of Miss Roberts in textiles, has made good progress in her studies on Canadian cottons with respect to their suitability for household use as determined by physical and chemical analyses. She plans to continue this work next year.

Miss G. H. Donald has completed her work on the calcium content of some Canadian vegetables. The first part of the study dealt with the variation of calcium content in vegetables grown on different soils while the second part of the study was a determination of the change in calcium content due to cooking. This study is of practical value and already some of the figures have been used.

Geology and Palaeontology, under direction of Professor E. S. Moore

Field investigations in geology:

Professor E. S. Moore—Atikokan area. for Ontario Department of Mines.

Professor A. MacLean—Continuation of study of the eastern part of the Kirkland Lake area, for Ontario Department of Mines.

Professor L. S. Russell—Geology of Southern Alberta, for the Geological Survey of Canada.

Dr. J. Satterly—Geology and ore deposits of the McInnes (Sandy) Lake area, for Ontario Department of Mines.

Dr. V. J. Okulitch—Stratigraphy and palaeontology of the Black River group, between Montreal and Quebec.

V. K. Prest, B.Sc., M.Sc., (Man.)—Geology of the Miminiska Lake area, for Ontario Department of Mines.
M. W. Bartley, B.Sc., (Man.), M.A.—Geology of northern and eastern sections of the Screiber Map area, for Ontario Department of Mines.

Laboratory investigations:

Professor E. S. Moore—The formations of the Steeprock series.
Professor Madeline Fritz—Comparison of the Middle Silurian coral genera *Desmidopora* and *Multisolenia*, Microfossils from oil wells in southwestern Ontario, and their bearing on structural features.
Professor L. S. Russell—Preparation of detailed report on four seasons field work in southern Alberta. The skull of Hemipsalodon, a giant carnivorous mammal from the Oligocene of Saskatchewan.
Dr. V. J. Okulitch—Columella-like structure in the Corallites of *Tetradium fibratum* Safford.
Interference wave marking in the Dundas formation at Toronto.
A revision of the Black River corals.
V. K. Prest, M.Sc. (Man.)—Wall-rock alteration in the Porcupine area.
W. P. Corking, B.A.—Genesis of the Sherritt Gordon ore deposits.
J. W. Britton, B.A.—Genesis of the Iron formations and their relation to gold deposits in the Patricia District.
G. P. Crombie, B.Sc. (Man.)—Carbonate alteration in the rocks of the Larder Lake area.

Department of Medical Research (Banting), under direction of Sir Frederick Banting

For some years the Department of Medical Research has had the co-operation of members of the mining group on the silicosis problem. During the past year the work has been continued as a general problem of the department.

On January 3, 1937, Mr. J. J. Denny and Dr. W. D. Robson, of the McIntyre Porcupine Mine, came to the Department of Medical Research and presented the results of their preliminary experiments by which they had shown (1) that the addition of small quantities of metallic aluminum dust almost completely inhibited the solubility of siliceous material in a laboratory beaker and that (2) rabbits dusted with quartz to which less than one per cent. metallic alluminum dust had been added showed practically no fibrosis, while control rabbits, which had been dusted with quartz alone, showed well developed silicosis. The lungs and other organs of the animals of these experiments had been sent to Dr. D. A. Irwin, of this department, for pathological examination.

These preliminary experiments seemed to warrant a large scale investigation, and during the year Dr. Irwin and Mr. H. L. Collins, of this department, have carried on this work in collaboration with Mr. Denny and Dr. Robson.

It has now been shown that rabbits exposed for six months to an atmosphere containing quartz dust developed a silicosis which continued to progress after cessation of the dust exposure. Rabbits exposed to similar concentrations of quartz to which had been added 1 per cent. of metallic aluminum dust did not develop silicosis, after an exposure of a year. These animals showed no evidence of silicosis after being removed from the dust for a period of a year. Metallic aluminum has been found to effectively inactivate the quartz retained by the lung when inhaled as a mixture with quartz or when inhaled alone .

Considerable evidence has been obtained concerning the mechanism by which metallic aluminum inactivates quartz in the lung. The relation that exists between the solubility of quartz powder in vitro, the tissue response produced by the injection of quartz powders of varying solubility, the amount of aluminum necessary to inactivate quartz and the period for which aluminum will continue to intivate quartz has been studied. The practical application of metallic aluminum to the prevention of silicosis in industry is now under way.

The following investigations have been carried out with the co-operation and the financial assistance of the Technical Silicosis Research Committee of the Ontario Mining Association:

Miss H. Williams and Dr. Irwin have completed a study showing that the silicates commonly found in silicotic lungs are not leached to any appreciable extent by animal tissues up to periods of six months.

A study of the solubility of samples of quartz has been made by Miss Williams and Dr. Irwin. The samples were collected underground from the mining areas of Ontario by Mr. C. S. Gibson, of the above Committee. Professor H. E. T. Haultain, of the Department of Mining Engineering, ground the quartz in a ball mill especially constructed to avoid contamination and fractionated the resulting powder by means of the infrasizer he has developed.

Mr. C. S. Gibson and Dr. Irwin have investigated the toxicity of the various types of quartz encountered in the mining industry of this Province, and found them to be practically the same.

Dr. R. C. Sniffen and Dr. Irwin have demonstrated that certain silicates modify the action of quartz to increase or decrease its toxicity.

An X-ray diffraction pattern study of the crystalline siliceous materials present in silicotic lungs has been conducted by Dr. C. M. Jephcott, (Division of Industrial Hygiene, Provincial Department of Health), Mr. W. M. Gray (Department of Physics) and Dr. Irwin.

A detailed study of a rare case of simple silicosis uncomplicated by infection or the presence of siliceous dust other than quartz has been made by Dr. A. R. Riddell and Dr. Jephcott (Division of Industrial Hygiene, Provincial Department of Health) and Dr. Irwin.

A study of the shadows produced by various dusts in X-ray films of the chest is being carried out by Dr. R. C. Sniffen and Dr. Irwin, with the co-operation of Professor G. E. Richards (Department of Radiology).

Mr. B. S. Leibel and Dr. G. E. Hall have developed a greatly modified form of thermostromühr, by means of which accurate registrations of blood flow in arteries and veins may be made. Using this stromühr, changes in blood flow in the coronary vessels as a result of nervous influences are being studied.

These workers are also studying the effects of autacoids, hormones and drugs upon the coronary blood flow, ventricular output and total work of the heart in the isolated heart preparation, as well as in animals with denervated hearts.

Mr. G. W. Manning and Dr. Hall have conducted a serious of experiments in which different branches of the coronary arteries have been ligated. The resulting myocardial changes have been studied at varying intervals so that specific time relationships are available in connection with the development of the progressive pathological changes. They have also found that sudden occlusion of a branch of the coronary artery in the unanaesthetised dog is usually fatal whereas in the anaesthetised animals no deaths occurred. The obvious influences of cardiac afferent nerves are thus being studied.

Mr. Manning has prepared many fine cleared specimens of human hearts as well as various types of animals. By these it has been possible to specifically note the differences in coronary artery distribution as well as the differences in anastomosis between the various branches.

Mr. Manning, Miss J. Lang and Mr. M. Allan have studied the changes in blood sugar, serum choline-esterase, blood sugar and heart-rate following the administration of parasympatheticomimetic drugs in normal animals and in animals in which this enzyme system has been inhibited by prostigmine, physostigmine or miotine.

Dr. Hall is studying the inotropic and chronotropic cardiac stimulation in animals deprived of their cardiac sympathetic control as well as in completely sympathectomized animals.

Dr. Hall is continuing the work on coronary artery and myocardial damage following the daily intravenous injection of acetylcholine in dogs. He has also produced atherosclerotic lesions in rats following long-continued daily subcutaneous injections of the same drug.

During the progress of the above experiment an inordinate number of spontaneous tumours have been found. These have been reported on by Dr. Hall and Dr. W. R. Frank, who are continuing to study the possible relationship of acetylcholine to the oestrogenic and carcinogenic substances.

Mr. D. W. Lougheed and Dr. Hall have been conducting a large series of experiments in an endeavour to apply the intravenous injection of oxygen and of oxygen and carbon dioxide to clinical patients. The use of intravenous oxygen in carbon monoxide poisoning appears to be reasonable. The use of carbon dioxide and oxygen together with sodium bicarbonate may be of benefit in decreasing the alveolar carbon dioxide and increasing the oxygen of arterial blood.

Dr. S. Gordon and Dr. Hall are continuing the work on experimental nephritis. At the present time special attention is being paid to antigen-antibody relationship as produced by an injection of virulent streptococci in an animal already treated with many injections of a non-virulent culture of human haemolytic streptococci. The results are very encouraging.

Dr. Hall, Mr. D. Lloyd, Mr. J. Goodwin and Mr. B. Leibel have been engaged on the problem of the physiological significance of metrazol and insulin shock therapy in the treatment of schizophrenics. This is a division of a similar general problem undertaken by the Department in conjunction with the Department of Psychiatry and Public Health, as well as the Committee on Mental Hygiene.

Mr. Leibel and Dr. Hall have studied the changes in the blood flow to and from the brain during experimentally produced insulin and metrazol shock.

Mr. J. Goodwin, Mr. D. Lloyd and Dr. Hall have studied the changes in the bio-electric potentials as recorded from the exposed area striata of the cortex during similarly produced shock. These potentials were recorded on the electroencephalogram which has been constructed in this Department by Mr. Goodwin.

Dr. Hall is conducting a series of experiments where groups of animals are subjected to repeated insulin and metrazol shocks for many weeks. Blood sugars, glucose tolerance tests, etc. are being carried out on these animals which will later be used by Goodwin, Lloyd and Hall in a comparative series of electro-encephalographic studies of the effect of such chronic convulsions on the brain potential.

Mr. J. E. Goodwin and Dr. H. H. Hyland (of the Department of Medicine) are continuing their electroencephalographic studies of epileptic and other neurological cases from the Toronto General Hospital.

Mr. J. E. Goodwin and Dr. W. A. Hawke (of the Department of Paediatrics) are continuing their investigations of the brain potential changes in "behaviour problem" children as well as in the different convulsive states. They are studying, also by electroencephalographic recordings, the effects of hyperventilation, etc. in normal and abnormal children.

Mr. Lloyd has been working on the various phases of ganglionic activity in the autonomic nervous system with special reference to the following: (*a*) the excitability cycle of ganglion cells following activity; (*b*) the conduction of impulses by fibres which course directly through a ganglion; (*c*) retrograde transsynaptic electrotonus and (*d*) the slow potential waves set up by preganglionic and antidromic stimulation. Experiments have been started on the action potentials of a smooth muscle system (arrectores pili) excited by stimulation of the motor nerve supply. Recent developments from this work and by other workers in the field of nerve cell physiology have opened up many new questions for further experimental analysis.

Mr. L. Lawson and Mr. Lloyd have made a study of the potentials recorded from various parts of the cat's brain by means of the Horsley-Clarke instrument, both under normal conditions and under the influence of convulsive drugs.

In the biochemical division of the Department of Medical Research, Dr. C. C.

Lucas has been studying the conditions necessary for the quantitative removal of cystine from protein hydrolysates, by a method which will not introduce any substances interfering with a subsquent separation of the remaining amino-acids. Mr. J. Beveridge and Dr. Lucas have been engaged in a study of the chemical make-up of human and other hairs. Mr. L. B. Macpherson has continued his work on the synthesis of phosphoric esters related to the phospholipids.

During the summer months of 1937, Dr. J. J. Rae, while holding the James Page Rutherford Fellowship, did further work on the phosphoric esters in normal human urine.

In collaboration with Dr. G. E. Hall and Dr. D. R. Mitchell (of the Department of Urology) Dr. Lucas has studied the physiological and biochemical properties of mandelic acid in connection with its use in the treatment of cystitis and pyelitis. Some hazards (such as acidosis and stone formation) have been found to be associated with the use of mandelic acid as a urinary antiseptic. It has been possible to discover the clinical conditions in which the drug is contra-indicated; in other cases the drug is a valuable bacteriostatic agent of great value in controlling urinary infections. Miss J. M. Lang and Miss M. E. Wheatley gave valuable technical assistance by their careful analysis for usinary calcium and phosphorus, respectively.

An outgrowth of the above research was a collaborative study of the use of sulphanilamide in urology—Dr. D. R. Mitchell contributed the following clinical data, Dr. Philip Greey (of the Department of Bacteriology) studied the effects of the drug upon pathogenic micro organisms, both in vivo and in vitro, and Dr. C. C. Lucas, with the technical assistance of Miss Wheatley, conducted the biochemical control. The effect of the drug upon several species of animals, as well as upon healthy humans has been also studied. Dr. Hall has collaborated in some of the animal experiments where surgical, physiological and pathological assistance was required. It is particularly gratifying to record that as a result of the cordial inter-departmental co-operation the research progressed most favorably and for an exhibit at the recent Ontario Medical Association Convention, showing the results of the above collaborative research, Drs. Mitchell, Greey and Lucas were awarded a gold medal. The work is being continued and the program has been expanded.

Dr. Lucas and Dr. Mitchell have also commenced a collaborative study of kidney and bladder stones.

Dr. Lucas has given some time to furthering the cancer research program: several batches of very pure sodium ferricyanide and a quantity of glucuronic acid were prepared in this laboratory.

The following work has been carried out under the direction of Dr. W. R. Franks:

The work on the synthesis of chemoantigens from non-immunising compounds concerned in the pathogenesis of disease has been continued. As applied to carcinogenesis, immunisation of mice with antigen formed by linking dibenzanthracene to casein gives evidence of yielding protection against the carcinogenic action of the dibenzanthracene. The influence of such a procedure on spontaneous carcinogenesis in mice is under investigation.

The anthranyl and dibenzanthranyl isocyanates prepared by Dr. H. J. Creech in the above coupling to protein were identified by reaction with alcohols. The former substance and the *B* anthryl derivative are being used for possible cross-immunity against the carcinogens. Arrangements have been completed whereby the preparation of more suitable derivatives for anti-carcinogenic antigen formation will be conducted by taking advantage of the proffered co-operation of Professor L. F. Fieser, of Harvard University. To this end a grant has been obtained from the International Cancer Research Foundation to enable this phase of the work to be carried on by Dr. H. J. Creech under Professor Fieser's direction at Harvard.

The application of the above principle to tuberculosis carried on with the co-operation of Mr. M. O'Sullivan has been confined to testing linkage of organic iodo derivatives to sulphydryl groups of reduced keratin which itself shows some antigenic activity.

With the assistance of Miss M. M. Shaw, the in vivo activity of the isomers of glyceric aldehyde have been tested for possible synergistic activity with the toxic action of irradiation on tumors. The d- and the l-glyceric aldehyde were prepared by Dr. E. Baer, under the direction of Dr. H. O. L. Fischer, and the irradiation carried out in co-operation with the Department of Radiology.

Dr. E. M. Hearne Creech has continued her studies on the in vitro activity of water soluble carcinogenic substances on growth and cell division.

With the co-operation of Mr. G. A. Meek, the characteristics of mono-molecular films of the above carcinogenic and related derivatives on surfaces are being studied.

With the assistance of Mr. A. E. Byrnes and Dr. L. D. Proctor, the influence of acute B^1 deficiency on glyoxalase has been studied. The glutathionne content of brain in insulin hypoglycaemia has been similarly investigated.

Dr. E. M. Hearne Creech has studied in vitro the influence of phagocytosed silica on cell division.

Dr. Franks has studied the influence of the admixture of actively phagocytosed manganese dioxide on the development of experimental silicosis.

In co-operation with Dr. N. L. Easton, Director of Research of the Ontario Hospitals, Dr. Banting and Dr. Franks have been studying the development of certain refractory states to insulin, following prolonged administration of large doses of the latter.

Dr. Bruno Mendel, with the assistance of Miss F. Strelitz and Miss Mundell, has continued the study of the effect of glyceric aldehyde on the respiration of tumour cells. They found that d-glyceric aldehyde had no effect on the aerobic glycolysis of tumour cells. More recently they found that all the activity of racemic glyceric aldehyde was in the laevo rotatory form of the substance. Both the d- and l-glyceric aldehyde for this work was synthesised by Dr. H. O. L. Fischer and Dr. E. Baer.

Dr. Mendel has also tested a large number of chemical substances for their effect on the respiration and fermention of the tumour cell, and has continued his investigation of sodium ferricyanide.

The facilities of the laboratory were extended to Dr. H. Krebs, Professor of Biochemistry, Sheffield University, England, during his three weeks' visit, for the purpose of investigating the effect of pancreatectomy on the metabolism of muscle.

Miss H. Ball continued the investigation of tuberculosis, using tuberculin treated with glyceric aldehyde.

Medicine, under direction of Professor Duncan Graham

During the past two years Dr. Cleghorn has been studying the functions of the sympathetic nervous system in adrenal insufficiency. It has been found that the functions of the sympathetic nervous system and the effect of pressor drugs are normal in adrenalectomised animals receiving adequate quantities of cortical extract. In adrenalectomised animals maintained on a high salt low potassium diet, the functions of the sympathetic nervous system appeared to be normal but the effect of pressor drugs showed marked qualitative differences. A report of this work is being published. Preliminary studies on the relation of surgical shock to adrenal insufficiency have been made. This work is being continued.

Drs. Cleghorn and Hyland, in association with Drs. Linell and Mills of the division of neuropathology, have published a most complete clinical and pathological study of a case of tumour of the pineal gland. As little is known of the function of the pineal gland, this report is an important contribution to our knowledge of the mechanism responsible for the production of the more important signs and symptoms present in this case.

Dr. Hyland, working in co-operation with the department of medical research, has made definite progress in the study of electroencephalograms from patients suffering from neurological conditions such as migrane and epilepsy.

The 1937 epidemic of poliomyelitis presented an opportunity for the study of a number of problems concerning the treatment of acute anterior poliomyelitis. Twenty-six patients in the pre-paralytic stage of the disease were treated with convalescent serum, but this treatment seemed to have no effect in preventing the development of paralysis or in modifying the course of the disease. In the treatment of respiratory paralysis different types of artificial respirators were tried. The Drinker respirator was by far the most effective during the acute phase of the illness and in cases where prolonged treatment was necessary. With a view to obtaining more accurate records of the progress of respiratory muscles showing paralysis, estimations of the vital capacity were made. Estimation of the vital capacity at intervals has proved to be a valuable aid for determining (1) the severity of the paralysis of the respiratory muscles at the onset; (2) the period of time each day a patient should be allowed out of the respirator after the acute phase of the disease is over; and (3) the length of time respiratory treatment should be continued. Unfortunately the method is not applicable in children suffering from poliomyelitis.

The results of repeated estimations of the vital capacity clearly show that prolonged immobilisation of the spine and ribs definitely impede the recovery of the paralysed muscles. It has been shown that the institution of suitable remedial exercises at an appropriate time promotes the recovery of paralysed respiratory muscles and thereby lessens the tendency towards the development of deformities. The application of similar measures in the treatment of paralysed skeletal muscles would appear to be indicated.

Drs. Hyland, Gardiner, Heal, Oille and Solandt will publish shortly a report of the clinical findings and results in treatment of sixty-six adult cases of acute anterior poliomyelitis.

Drs. Cleaver and Maltby have published a report on the results of medical treatment in forty cases suffering from gastric ulcer. The average age of the patients was fifty-five years. After approximately five years thirty-three patients were free of symptoms, seven had symptoms suggestive of gastric ulcer, but only three of the forty patients presented X-ray evidence of an active gastric ulcer.

In 1931 Dr. Farquharson and the head of the department reported the first cases of Simmonds' disease discovered on this continent. At a recent meeting Dr. Farquharson, in association with Drs. Belt and Duff of the department of pathology, reported the results of a clinical and pathological study of four cases of this rare disease. The clinical manifestations of Simmonds' disease are closely simulated by those found in anorexia nervosa. Many of the cases reported as Simmonds' disease are evidently cases of anorexia nervosa. Drs. Farquharson and Hyland will publish shortly a report calling attention to differences in the clinical and pathological findings in these two conditions.

The effect of different vitamin deficiencies are being investigated. Dr. Wallace Graham has determined the vitamin C content of the urine in a variety of diseases. Cases presenting evidence of vitamin C deficiency have been given liberal quantities of ascorbic acid and its effect on the clinical condition of the patient observed. Changes in the gums and teeth in such conditions as diabetes mellitus, arthritis and nephritis are being studied.

Mineralogy and Petrography, under direction of Professor A. L. Parsons

Professor A. L. Parsons has carried on during the year the following investigations:

A study of the relations between the wave surfaces of light and the corresponding index surfaces in crystals.

A further study of the semi-precious stones of Canada.

Professor Ellis Thomson was engaged in the investigation of the ore minerals of the Denison Nickel Mine.

Professor M. A. Peacock completed the following:

A description of Goldschmidtine, a new antimonide of silver.

A new theorem with a convenient graphical solution, for rapidly finding the spacing of any set of lattice planes in any lattice whose elements are known.

Assisted by Mr. L. G. Berry, a study of the crystallography and optics of four new salts prepared by Dr. J. G. Breckenridge and Mr. O. C. Smith in the department of chemical engineering.

In collaboration with Mr. M. C. Bandy, Llallagua, Bolivia, he completed a description of Ungemachite and Clino-ungemachite, new minerals from Chile.

Professor Peacock and Mr. L. G. Berry have completed the following investigation:

A study of the mineral copiapite. With the help of x-ray measurements made on our new Weissenberg X-ray Goniometer, they have determined the structural lattice and constitutional formula of the mineral and have revised the optics of the species. They are much indebted to Professor E. F. Burton and Professor H. J. C. Ireton of the department of physics who extended the facilities of the x-ray apparatus of the McLennan Laboratory for their use.

Dr. V. Ben Meen has been engaged in the following studies:

Cleavage-luminescence in mica from Kilmar, Quebec.

An investigation of Cancrinite from Bancroft, Ontario.

The examination of a meteorite from Chile.

Mr. A. T. Prince completed a study of the mineral Sphene from Lake Clear, Renfrew County, Ontario and 16 Island Lake, Argenteuil County, Quebec.

A part of Dr. Peacock's time has been devoted, in co-operation with the departments of mineralogy in Harvard University and Yale University, to the revision of Dana's *System of Mineralogy*. This involves, not merely a compilation from the literature, but in many cases a complete re-examination of the minerals, with optical and röntgenographic measurements. The addition of a universal stage for the petrographic microscope and a part of the x-ray equipment necessary for the study of crystal structures has facilitated such work. With the installation of the complete x-ray equipment for structural investigations the department will be admirably fitted to carry on this most important phase of mineralogy.

During the year the Walker Mineralogical Club was organised in affiliation with the department of mineralogy and petrography. Graduates from this university and colleagues in our sister universities and in the government service were consulted and asked to become members. The response has been very encouraging, for we have an organisation of two honorary members, fifty-one ordinary members and nine student members. A full account of the organisation appears in "Contributions to Canadian Mineralogy" for 1938.

So far as publication of results is concerned, the work of the department has been further supplemented by papers from members of the Walker Mineralogical Club, as shown below, which will be published in "Contributions to Canadian Mineralogy" for 1938.

Brownell, G. M. (University of Manitoba). Zeolites at the Sherritt Gordon Mine.

Osborne, F. F. (McGill University). Preliminary Notes on Pseudomorphs after Spinel from Kilmar, Quebec.

Poitevan, E. (Geological Survey of Canada). Natrolite from the Eastern Townships, Quebec.

Rutherford, R. L. (University of Alberta). Crystal Habit of the Orthoclase in the Crowsnest Volcanics at Coleman, Alberta.

Wilson, M. E. (Geological Survey of Canada). The Keewatin Lavas of the Noranda District, Quebec.

Obstetrics and Gynaecology, under direction of Professor W. A. Scott

Dr. J. R. McArthur returned in the fall from study abroad, and is assisting

Dr. Cosbie in the radiological treatment of carcinoma of the genital tract in collaboration with the Institute of Radio-therapy.

Dr. M. C. Watson has continued his work in the study of Endocrinology and has again published an interesting paper on that work.

Paediatrics, under direction of Professor Alan Brown

As in the past, the staff of the Department of Paediatrics, University of Toronto, has been actively engaged in studies on the prevention and cure of the various diseased conditions encountered during infancy and childhood.

Work in conjunction with the Connaught Laboratories has resulted in the perfection of whooping-cough vaccine which is now being made available to the physicians of Ontario. The results obtained with this vaccine have been so striking that the routine use of whooping-cough vaccine for the immunisation of children against this dread disease is now advocated by practically all paediatricians in Ontario. During the year 1936, there were no less than 29 deaths in the Province of Ontario from whooping-cough. As the results with this vaccine indicate that 98 per cent. of the children inoculated are rendered immune, the universal use of this vaccine will be the means of saving the lives of many little children.

Also in conjunction with the Connaught Laboratories, a serum has been developed for the treatment of influenzal meningitis. Formerly this disease was invariably fatal. Through the use of this serum, in the last 50 cases at the Hospital for Sick Children, 12 recovered and are now perfectly normal. This means that these twelve children owe their lives to the use of this serum.

It is well known that certain infections such as measles and chickenpox are disseminated by the causative factors being carried through the air. With this in mind, extensive investigations are under way to study air-contamination and means for its control. In one of the hospital operating-rooms, installation of special ventilation and special ultraviolet lamps resulted in a reduction of the bacteria in the air much below that which has been previously obtained.

In recent years, it has been recognised that many forms of asthma are caused by minute particles of different materials in the air being inhaled by the patient. From studies conducted in the Hospital for Sick Children, it has been found that in certain refractory cases the offending substance has been house dust. Accordingly, extracts have been made up from house dust which have been effectively used in the treatment of these distressing cases.

Studies have resulted in an improvement of our methods of treatment of bronchiectasis, pyelitis, nephritis and diabetes. A continuous study of these and other conditions is constantly necessary in order to evaluate the newer therapeutic measures which are being developed elsewhere as well as here. The study of heart disease in children is giving encouraging results of a most practical nature. It is now possible to determine fairly accurately the degree of activity of the disease and just how much physical exertion the child can safely undertake.

The mental health of the child is not being neglected in our studies. Extremely interesting results are being obtained in a study in co-operation with the Banting Institute of the electrical currents in the brain in different diseased conditions. These measurements are being made by means of the elecctro-encephalograph, which records and measures exceedingly minute electrical currents in different parts of the brain.

About the middle of August, 1937, it was evident that Toronto and Ontario were in the initial stages of an epidemic of anterior poliomyelitis. This dread disease rapidly spread through most of the province and to other parts of the Dominion. The staff and research facilities of the department of paediatrics were immediately placed at the disposal of the health authorities of the province and city, and took an active part in the prophylactic and curative measures which were instituted. In co-operation with the School of Hygiene, the Department of Health of the Province of Ontario, and the oto-laryngologists of all the city hospitals, the prophylactic value of the zinc-sulphate nasal spray was investigated. It involved the spraying of some 5,000 children and the careful comparison of the results obtained on this group and on a control group of children living in the same sections of the city and of the same age who had not received the spray. Unfortunately the results obtained indicate that this procedure as followed was not effective as a prophylactic measure. In the treatment of the disease, no evidence was found that convalescent human serum was of any benefit. In the course of the epidemic many emergency cases arose in which the unfortunate patients suffered from a paralysis of the respiratory muscles. To combat this phase of the disease no less than 27 mechanical respirators (iron lungs) were rapidly manufactured by the Hospital for Sick Children and used not only by the Department of Health of the Province but also were shipped to other parts of the Dominion.

There is no one factor in our daily lives which has a greater influence on health than proper nutrition. During the past year investigations have been undertaken on the need of vitamin A, vitamin C, iron and calcium. The utilisation of iron and calcium in various Canadian foods has been studied. These investigations are giving information that is of importance not only in the prevention and cure of obvious nutritional deficiencies but when applied generally this knowledge will result in an increased resistance to disease, a higher level of health, and increased longevity.

Pathology and Bacteriology, under direction of Professor W. Boyd

I have dealt in my report to the Dean of the Faculty of Medicine with the difficulty of following in the footsteps of so distinguished a predecessor as the late Professor Oskar Klotz. The various changes which have been introduced in methods of teaching and in the development of the museum have also been considered in that report. In the present report reference will be made only to investigative work being done in the department.

Dr. G. Lyman Duff has analysed a rather large series of cases of carcinoma of the body and tail of the pancreas with the object of drawing attention to the tendency of these tumours to spread in such a manner as to produce misleading clinical symptoms and signs which have not hitherto been recognised as common in this disease. He has also collaborated with Dr. R. F. Farquharson of the department of medicine in a clinical and pathological study of 4 cases of Simmonds' disease which have come to autopsy in this department within recent year, and has assisted Dr. H. A. Dixon, also of the department of medicine, in his study of an unusual case of melanotic sarcoma. With the collaboration of Dr. D. E. Magner, Dr. Duff has continued and extended the experiments commenced a year ago on the effects of different protein derivatives upon the vascular systems of various animal species. Dr. M. O. Klotz has continued and completed his study of the association of silicosis and primary carcinoma of the lung, and he has also written an extensive review of the literature dealing with primary pulmonary cancer. Dr. D. E. Magner has made a study of various types of subacute myocarditis of unknown aetiology, and has prepared for publication a report of one case encountered at autopsy during the past year. Dr. H. C. Hair has been engaged in an histological study of infarcts of the lung with a view to establishing criteria for the determination of their age, while Dr. L. M. Gray has undertaken a study of testicular tumours which he will bring to completion during the coming year.

In the division of bacteriology the study of sulphanilamide and related compounds has been continued by Dr. P. H. Greey both on the experimental side as to their effort in tuberculous infections in animals and, in co-operation with the staff of the Toronto General Hospital, on the clinical use of these substances. The Ontario Medical Association at the annual meeting this year awarded a gold medal to Dr. P. H. Greey, Dr. C. C. Lucas of the Banting and Best department of medical research and Dr. D. R. Mitchell of the department of surgery for their exhibit on sulphanilamide treatment in urinary tract infections. Dr. W. L. Holman has published a masterly review of all the work that has been done on sulphanilamide up to the present time, a contribution to which all investigators will turn as a source of information for many years to come. Dr. Greey continued his research on bacterial synergism, has studied the heterophil aggultinins in infection mononucleosis, and with Dr. Marion Ross has been determing the incidence of anaerobic streptococci in puerperal and other infections. Dr. D. R. E. McLeod investigated certain phases of the lysis of red blood cells. Dr. R. Margarite Price as part of her valuable work on tuberculosis has been correlating the results of the tuberculin tests which she has done since 1932 on the third year medical students and has retested the non-reactors (about half the class) during the next three years. The problem of bovine tuberculous infections in children has continued to attract her interest and the factors leading to the decreasing incidence, established by her diagnoses, are being better understood.

The division of surgical pathology has had to curtail its research activities somewhat due to the extra burden of routine work occasioned by the taking over of gynaecological pathology from the department of obstetrics and gynaecology. However work is still continuing on the problem of gastric and duodenal ulcers and it is hoped in the near future to have some interesting observations for publication. Experimental work was started on the aetiology of mixed tumors of the parotid gland, which it is hoped will clarify to a degree the vexed problem of their conglomerate nature.

The division of neuropathology has been strengthened during the past year by the appointment of Dr. J. Clifford Richardson as fellow in neuropathology and by the addition of Dr. E. H. Botterell to the staff in neurological surgery. Dr. Richardson has undertaken a detailed study of the pathology of acute anterior poliomyelitis, and is also engaged in investigating oedema of the brain. Dr. Botterell, in addition to adding important surgical material to the files of the division, is interesting himself particularly in studying injuries to the nervous system. Dr. K. G. McKenzie and Dr. Linell in collaboration with Dr. W. L. Robinson are continuing their investigations in this field, and Dr. Botterell will prove a valuable addition to the team. Dr. Mary I. Tom has collaborated with Dr. D. Y. Solandt and Dr. Botterell in a histological investigation of regeneration of nerve and voluntary muscle following nerve-suture. Dr. Linell is engaged with Dr. E. Hall in an experimental investigation of the histological changes to be observed in the brain following insulin and metrazol injections. Dr. Burns Plewes has investigated and reported upon an interesting case of cervical cord injury. Other subjects which will be found in the list of publications are hypogonadism associated with pineal tumour, intracranial aneurysms, spontaneous haematomyelia and cranio-cerebral injuries.

Pathological Chemistry, under direction of Professor Andrew Hunter

Drs. Nicholson, Urquhart and Selby, supported by a grant from the Banting Research Foundation, have continued on an extended scale their investigation of kidney function as affected by experimental nephrosis. One phase of this study has already been brought to a satisfactory completion. The degenerative changes in the cells of the proximal convoluted tubules have been shown to involve changes in permeability, which explain many of the functional derangements observed.

As part of the same general problem Dr. Nicholson and Mr. Gornall have studied the production of urinary ammonia in experimental nephrosis, and have obtained evidence that the site of ammonia formation is not the proximal convoluted tubule.

Dr. Hunter has completed his study of the action of arginase upon carbamidoarginine and has identified the products as urea and the hitherto unknown alpha-carbamido-ornithine. An anhydride of this substance, also new, has been prepared, and has been shown to be probably a piperidone. Attempt at the synthetic preparation of these substances are in progress. The general problem of the specificity of arginase is being explored in several other directions.

Dr. Hunter has devised methods for the preparation of arginine and ornithine by the use of appropriate enzymes. As a result ornithine in particular has been made much more accessible than it was, and considerable quantities of that substance have been prepared for research purposes.

In connection with the work on the specificity of arginase, Dr. Woodward has devised a new and simple method for the preparation of carbomido- and methyl-carbamida-arginine.

Mr. Gornall has completed a useful study of the behaviour of carbamido-compounds in the Van Slyke method for the determination of amino groups.

Dr. Lawford has worked out a method of preparing partly purified and highly concentrated solutions or arginase, by the use of which he has been able to improve and greatly to shorten the method for the enzymatic determination of arginine.

Pharmacology, under direction of Professor V. E. Henderson

The research in the department has proceeded satisfactorily. Dr. Bonnycastle continued the work on adrenalin begun by Prof. Lucas last year, and the material is ready for press. He has also begun a study of spinal anaesthesia, intending to settle the dispute in regard to the danger of direct poisoning of the respiratory centre by a local anaesthetic rather than a poisoning of the phrenic roots. This study has also made good progress.

Dr. Rice has continued some studies begun last year on the reflexes controlling respiration and the effects of drugs on the respiratory mechanism. A good deal of very excellent material has been obtained and a preliminary communication was presented before the American Society for Pharmacology and Experimental Therapeutics in April. A series of papers dealing with this work is in course of preparation.

Dr. Lucas has made a study of the oral absorption of bismuth, taking a new bismuth compound, bisiodide, in order to obtain a thorough insight into the literature not only of the oral but of the intramuscular use of bismuth in the treatment of syphilis. His work was not only on animals, but owing to the co-operation of Drs. A. MacKay, W. B. Edmonds and E. B. Hardy he was able to follow the excretion in a series of clinical cases. The study has been of value not only in giving this department a thorough insight into methods and the literature, but also as a means of informing some members of the clinical staff of the problem and its literature. A paper dealing with this study has already been published.

Owing to the kindness of the Ohio Chemical Company, the department was provided with specimens of monochlor and dichlor cyclopropane. Both these are liquids, the boiling points approximating ether and chloroform respectively. Unfortunately these substances proved to be quite unstable in the animal body giving rise to marked lung lesions, and are of no value as anaesthetic agents. This study enabled the Head of the Department to complete an investigation of the more obvious possibilities of improving cyclopropane and led to the presentation before the Royal Society of a paper reviewing the historical progress of our knowledge of chemical substances have anaesthetic actions. It showed the disadvantages of the various anaesthetic reagents at present available and enabled certain deductions as to the possible physical and chemical characteristics of substances which would prove suitable anaesthetics. Papers dealing with these two topics are in press.

Physics, under direction of Professor E. F. Burton

Low Temperature Laboratory:

The following members of the staff and graduate students have co-operated in the work: Professors J. O. Wilhelm. H. Grayson Smith. and Arnold Pitt. Dr. A. H. Woodcock, demonstrator. Mr. K. C. Mann. holder of a War Memorial Graduate Fellowship. H. E. John, National Research Council Bursary. J. C. Findlay. R. W. Leonard Graduate Fellowship. and H. M. Bryant. assistant demonstrator. The following problems have been studied,—the effect of magnetic fields on persistent currents flowing in closed superconducting circuits, and the relaxation effects connected with the transition between the superconducting and non-superconducting states; the refractive indices of liquid helium I and II; the flow of liquid helium I and II through capillary tubes; the velocity of sound in liquid helium, and its compressibility resistance and gas thermometers for use at liquid hydrogen and liquid helium temperatures; development of apparatus for the measurements of the magnetic susceptibilities of finely divided superconductors.

Spectroscopy:

The experimental investigation of hyperfine structure has been continued by M. F. Crawford, R. Richmond, and W. M. Gray. A light source which emits very narrow spectral lines has been developed and is being used to study the small hyperfine structures of the light elements.

The atomic spectra of mercury and lead have been analysed by M. F. Crawford and A. B. McLay, with the co-operation of A. M. Crooker and M. W. Johns formerly members of this department, but now engaged elsewhere.

Two theoretical researches on hyperfine and multiplet structures have been completed.

The spectroscopic determination of the amount of zinc in tissues that was undertaken some time ago for the Connaught Laboratories was completed during the year by S. Bateson. Several similar analyses are now in progress.

Geophysics:

Research in Geophysics has been carried on by Professor L. Gilchrist, A. R. Clark, C. H. Acheson, and M. J. S. Innes, as follows:

Laboratory Research

The determination of the average intensity of magnetisation and the equivalent susceptibilities of magnetic ore bodies.

A theoretical study of a useful collection of equivalent magnets as an aid to the magnetic exploration of ore bodies.

Results of combining electrical self potential methods with magnetic methods in geophysical exploration of magnetic ore bodies in the field.

Research in the Field

Field work carried out near Kenora, Ontario, in co-operation with the Northfield Mining Corporation.

Field work carried out near Kenora, Ontario, in co-operation with the Coniagas Mine Company.

Field work carried out near Maskwa Lake, Manitoba, in co-operation with the Stanmore Mining and Smelting Corporation.

During the year, as a result of a donation by Mr. T. Lindsley, of Ventures, Limited, Dr. Arthur Brant has held a fellowship in geophysics which enabled him to devote his whole time to research in this department. During the summer of 1937 he was in the field with a party under the Department of Mines carrying out geophysical investigations, and has already left with another party, under the same department, for further work during the summer of 1938. During the year he prepared, at the request of the Department of Mines, a comprehensive report on the use of the ordinary dip needle.

Colloidal Solutions:

Two graduate students were working in this field during the year.—Miss A. M. Crutcher, with a Bursary, and L. T. Newman with a studentship from the National Research Council at Ottawa; Miss Crutcher was investigating the problem of density of lyophobic solutions, particularly with reference to Bredig gold colloids to determine the actual density of gold in the colloidal state, and Mr. Newman the spectrochemical analysis of adsorbed ions in colloidal solutions.

Electron Microscope:

Mr. James Hillier, assistant demonstrator, and Mr. Albert Prebus, under a bursary from the National Research Council have been working jointly on the construction of an electron microscope with very promising results. This work has been given some assistance by the National Research Council.

Research with Quartz Crystal:

Mr. D. W. R. McKinley has carried out a research on the problem of finding the velocity of light by the use of an oscillating quartz crystal.

Other Investigations:

Dr. John Satterly, with the cooperation of Mr. O. A. Gilmore, carried on a further study of the inclined water jet, by applying Bernoulli's principle to show that the pressure in the jet never varies greatly from atmospheric. This definitely disproves Levi-Civita's original theory. Parabolic projectile paths have been plotted with the same initial conditions as the jet and in all cases the jet falls short of the projectile path. Assuming this to be due to the viscous resistance of the air, an estimate has been made of the thickness of the air carried along on the moving fluid. Velocity measurements within the jet have been made with a Pitot tube of small dimensions and results compared with computed velocities from flows and cross sections.

Professor H. A. McTaggart has been working on the measurements of the ellipticity of light reflected from thin films of oriented molecules. His experiments and observations call attention to the changes produced in the ellipticity of the light reflected from a number of monolayers of Barium Stearate placed on glass. A complete theory based on the ordinary laws of reflection and refraction at such surfaces would be necessarily a complicated one. Two experimental facts may be emphasised in cases where the light is plane polarised.

Films built up of oriented molecules on glass may be used to vary the ellipticity —from positive to negative values—of light reflected from them.

Certain thicknesses of film may be found which give plane polarised light at all angles of incidence.

Professor H. J. C. Ireton, with Dr. H. L. Welsh cooperating, has carried out a study of atomic collisions in caesium vapour and of the reflection of the caesium resonance lines from the surface of the vapour.

Dr. H. L. Welsh, worked independently, on an investigation designed to measure the efficiency of atomic collisions of the second kind in sodium vapour.

Mr. C. K. Cheng, graduate student, continued his work on dielectric constant measurements.

Mr. W. F. Oliver has completed a study on vitreous ice on which he has been working for the last two years.

The students listed below have been carrying on work under the following awards:

Miss A. M. Crutcher	—Bursary from the National Research Council
K. C. Mann	—War Memorial Fellowship from the Alumni Association
H. E. Johns	—Bursary from the National Research Council
L. T. Newman	—Studentship from the National Research Council
Albert Prebus	—Bursary from the National Research Council
S. Levine	—A Royal Society of Canada Fellowship—held at Cambridge, England
A. D. Misener	—1851 Exhibition Science Research Fellowship held at Cambridge (second year)

Psychiatry, under direction of Professor C. B. Farrar

Further work has been done in collaboration with the Department of Medical Research on the intermediate products of carbohydrate metabolism in certain acute phychoses; also on the biochemistry of hypoglycemic shock. These studies are still in progress. In the out-patient service, a study of factors in the psychoneuroses is being conducted.

Psychology, under direction of Professor E. A. Bott

Fifty-seven graduate students took instruction in the department of psychology in 1937-8 of whom eight were enrolled from four other departments. Two candidates completed the requirements for the Ph.D. degree and eleven for the M.A. degree. The names of these candidates and the subjects of their theses are as follows:

For the degree of Doctor of Philosophy:

Long, Eleanor R.: A Study of Children's Appreciation of Consequences.
Northway, Mary L.: Bartlett's Concept, 'Schemata'.

For the degree of Master of Arts:

Bailey, Nora: An Analysis of Camp Records.
Bensen, Margaret: An Analysis of the Imitative Behaviour of Thirty Preschool Children.
Brown, Isabel: An Exploratory Study of Teasing.
Carson, Marjorie, E. C.: An Investigation of the Predictive Value of Intelligence Tests of Preschool Children in Foster Homes.
Lamon, Helen: A Study of the Color Selection of Young Children.
LeBas, Margaret: The Validity of Items of Preschool Tests.
Loeb, Nora: A Critical Study of McQuitty's Concept of Concomitance.
Ord, Violet: An Analysis of the Method of Art Instruction used at the Children's Art Centre, Toronto.
Rintoul, Dorothy F.: An Experimental Study of Laughter and Smiling in Preschool Children.
Sparling, Margaret: Variation and Predictive Value of the Intelligence Quotients of Preschool Children.
Stewart, Margaret C.: The Application of a Theory of Discipline in a Private Home Setting.

The increase in enrolment of undergraduates in psychology classes during recent sessions necessitated this year enlargement of laboratory accommodation and the re-organisation of some of our large classes. This has been facilitated by the University securing the double house, 102 and 104 St. George St. for our purpose. As a result a more effective classification of our students in each year of the pass course will be possible; Professor Ketchum's social studies laboratory in 100 St. George St. will be enlarged to provide for practical work with honour students in sociology and psychology; suitable quarters for the vocational studies laboratory of Professor Cosgrave will be provided in 102 St. George St. as well as a laboratory for Professor Chant's advanced experimental psychology. These needed changes will permit more intensive work with graduate students as well as with undergraduates.

During the past session our staff have been engaged upon a number of special investigations.

Electrical equipment for the study of encephalograms has been completed by Professor Bott and Mr. H. C. H. Miller, also photographic equipment for the study of ocular behaviour with special reference to proficiency in reading.

Professor Chant has extended his investigations in the selection of educational adjustment of undergraduates through a special program relating to students in the first and second years of medicine which is being conducted in co-operation with the assistant dean of that faculty. Professor Chant has also advanced his previous studies in the psychology of reasoning and is continuing his work in conjunction with the Committee on Accident Prevention of the Canadian Public Health Association.

Professor Line's work upon psychological problems at the public school level has furnished valuable leadership both for teachers and graduate students who are interested in the operation of the new courses of study in Ontario Schools; the relation between children's thought processes and their personality traits, also the validity of certain pre-school tests of intelligence have received his special attention.

Professor Cosgrave in collaboration with Mr. V. S. Stevens, vocational counsellor of the Western Technical and Commercial School, has been engaged on a study in vocational guidance with approximately 1000 Grade IX pupils. Material has been compiled for a special course of instruction on occupations which should assist such pupils in the choosing of a vocation and in planning the educational steps necessary to pursue it. In addition 30 persons of various ages have been systematically examined and vocationally advised during the year in his vocational laboratory. These cases have been referred individually from schools and social organisations in Toronto which co-operate regularly with our department for this purpose. At the request of the Director of the School of Nursing Dr. Cosgrave has also devised a series of selective tests for first year students in nursing. This study is planned over a period of years as a means of predicting aptitudes for work in nursing.

The psychological material which Professor Ketchum has collected over a period of years from students' life histories is now an invaluable source of data for analysis and research by advanced students. Our increased accommodation for social psychology will permit more adequate analysis of these and other social data bearing upon personality development.

Professor Bernhardt in cooperation with Professor MacArthur of the department of biology is supervising a study on the inheritance of certain behavior traits in mice in his comparative psychology laboratory. This study is planned to continue through several animal generations. Dr. Bernhardt has also assisted in supervising some of the graduate researches in child psychology in St. George's School.

Last year Professor Myers took a notable part in the planning and carrying out of the extensive statistical study which the Ontario Department of Health conducted relating to the incidence and results in treatment of cases of poliomyelitis in Ontario. The recent report of the Department of Health upon this study has received wide attention.

The graduate work of our department has been greatly stimulated through the generous gift at this time of a research fellowship by an anonymous donor. establishing the John Northway Memorial Fellowship at $500 per annum for a period of five years for advanced research in the field of personality development. The department aims to secure additional research fellowships of a similar kind for other essential phases of psychological work. The fields of vocational guidance. speech and reading disability, delinquency and penology, are examples of areas which await exploration if graduate students can be assisted through research fellowships.

Physiology. under direction of Professor C. H. Best

The various teaching courses proceeded in much the same manner as last year. New plans for the teaching of the practical work in third year medicine have been made so that the trimester system. to be introduced next year. can be utilised to the greatest advantage.

The researches carried on under the general direction of the head of the department were those of Mr. Louis Jaques in heparin and blood clotting and those of Mr. James Campbell on fat and carbohydrate metabolism.

Mr. Jaques has continued his researches on the purification and properties of fibrinogen and thrombin and the physiology of heparin. Promising results have been obtained in the purification of these proteins. He has also confirmed and extended his previous findings on the nature of the fibrinogen-fibrin reaction and has determined the solubility of fibrin.

With regard to the physiology of heparin the reaction of protamine with the anticoagulant has been studied. Chargaff's finding that protamine neutralises the action of heparin has been confirmed and the phenomenon extended to other basic proteins some of which have been found to have the same action. The reaction has been studied in vitro and characterised as a simple salt formation. On the basis of this work, a quantitative test for heparin has been devised. In collaboration with Dr. Waters, this has been applied to the blood of dogs in anaphylactic and peptone shock. The incoagulability of the blood in these conditions has been shown to be due to heparin or a closely related substance released by the liver during the shock. These findings provide further evidence that heparin is a physiological substance. The studies on the relation between heparin dosage and effect on clotting time have been completed.

The investigation of the relation of the anterior pituitary gland to fat metabolism has been continued by Mr. Campbell. During the visit of Dr. I. A. Mirsky to Toronto last June, attempts were made to find the immediate effects of adrenalectomy on the ketonaemia produced in rabbits by the injection of anterior pituitary extracts. This study is as yet incomplete.

In co-operation with Miss J. H. Ridout, it has been found that a fasting ketosis occurs in rats whose livers have been made fatty by high-fat low-choline diets but this does not occur in normal rats. An "adaptation" to this ketosis occurs, but by the injection of anterior pituitary extracts a greatly increased ketonuria is produced to which the animals may again become adapted. There is no constant relationship between the ketonuria and the level of liver fat. The ketonuria produced by anterior pituitary extract during fasting is greatly in excess of the fasting ketonuria after high-fat low-choline diets although the level of liver fat may be the same in both cases.

The "diabetogenic" action of anterior pituitary extract on normal dogs has been studied. In several animals the "diabetogenic effect" described by Houssay and his collaborators has been produced. In one a slight, apparently permanent diabetes was produced. In another an intense diabetes was produced which persisted after discontinuing the injections. Subsequent findings strongly indicate that the diabetes had been produced by a degeneration of the islets of Langerhans of the pancreas.

Tests whereby the various physiological activities of anterior pituitary extracts may be assayed have been developed and others are in the process of development. A method of assaying the potency of anterior pituitary extracts in increasing liver fat has already been described.

Fractionation of anterior pituitary extracts has already thrown some light on the nature of the substance present in such extracts which increase liver fat.

Mr. Campbell has also been helping Dr. N. B. Taylor with certain experiments where anterior pituitary extracts have been used.

For the past year Dr. R. E. Haist and Miss L. E. M. Roddy have been engaged in research under Professor N. B. Taylor's direction. Research assistance was given by Dr. T. H. Clarke of London, Ontario, who spent from September 1st to January 1st in the laboratory. His time was devoted mainly to experimental work on intestinal obstruction. Problems connected with intestinal obstruction continue to interest Professor Taylor and his collaborators, and a fair proportion of the time available for experimental work has been given over to this research. Dr. Haist is carrying out another series of experiments to determine the relation, if any, of the general effects of intestinal obstruction to the level of the plasma potassium. Among other researches at present under way is a study by Dr. Haist of the behaviour and reactions of decorticated animals. Studies upon calcium metabolism are being continued. The action of parathyroid extract upon the serum calcium of nephrectomised animals has been investigated. It has been stated that such animals fail to show the usual effects of the parathyroid hormone. No substantiation for the claim was obtained from this investigation. The effects of parathyroid extract and of viosterol have also been studied in pupplies in which rickets had been induced by the administration of beryllium carbonate; animals in which the rickets is well marked are resistant to the action of the hormone, and also, but to a less extent, to viosterol. The relationship of parathyroid function to the action of prolactin upon the crop glands of pigeons is under study. Some interesting and suggestive observations have already been made. The pathogenesis of gastric and duodenal ulcer is a question upon which some light may be thrown from the experimental side. With this end in view, the actions of colchicine and cinchophen upon the gastric mucosa have been under investigation. Chronic ulcers in the pyloric region have been produced in a large proportion of dogs treated perenterally with the latter drug.

Professor Taylor, as co-author with the head of the department, has just published "The Living Body", a junior text in physiology requested by Messrs. Holt and Company for use in American colleges.

In the department of physiology the section in biophysics, under the direction of Dr. D. Y. Solandt, has carried out physiological research along a variety of lines. Mr. J. W. Scott has been working on the so-called reaction of degeneration in denervated muscle. A method of measuring the time constant of accommodation in human nerve using linearly rising exciting currents has been perfected, thereby greatly simplying the clinical measurement of this factor. Work started in the previous year on the excitation of single muscle fibres and its relation to neural connections has been carried further. Dr. E. H. Botterell and Dr. Solandt have collaborated on the measurement of the excitability constants in normal and in regenerated mammalian nerve. Through Dr. Botterell and Dr. T. S. Pernett this section has co-operated with the department of surgery and the section of urology in certain clinical investigations. Mr. F. L. Robinson has worked with the section in biophysics on the construction of a double cross-circulation pump of novel design. Mr. J. D. Brown has built an electronic device with several new features for the rapid measurement of hydrogen ion concentration by the glass electrode method. During the epidemic of anterior polionmyelitis in the summer and autumn of 1937 the section in biophysics collaborated with the department of paediatrics in the Toronto Hospital for Sick Children and the department of medical research in testing devices for the artificial respiration of patients with respiratory impairment. Collaboration of this section with the staff of the department of physiological hygiene in a study of the effect of heparin on coronary thrombosis produced in dogs is outlined elsewhere.

Dr. E. T. Waters and Dr. I. A. Mirsky of Cincinnati joined in an investigation on the utilisation of *B*-hydroxybutyric acid by the mammalian heart-lung preparation. Briefly, it was shown that there was no semblance of a fixed ratio between the amounts of carbohydrate and of *B*-hydroxybutyric acid used by the heart and lung; also that there appeared to be preferential utilisation of carbohydrate.

Further investigations have been made by Dr. Waters and Mrs. J. P. Fletcher on the effect of fructose on the glucose tolerance curve. A number of other substances have been used instead of fructose; so far sorbitol is the only substance which gives an effect similar to fructose on the glucose tolerance curve. Sorbitol is even more potent than fructose. Sorbitol appears to be absorbed from the intestinal tract only very slowly and this fact accounts, partly at least, for earlier reports that sorbitol cannot be utilised by the mammalian organism. It is now demonstrated that perenteral injection of a solution of this substance into a fasting rat leads to a rapid accumulation glycogen in the liver, and at a considerably faster rate than in control animals receiving an equal quantity of glucose.

Dr. Waters in collaboration with Dr. J. Markowitz has conducted investigations on anaphylaxis in the dog. It has been shown that, contrary to general belief, the anaphylactic reaction can still be obtained in a sensitised dog under ether anaesthesia, even after complete removal of the liver.

Dr. Fidlar has collaborated with Dr. Waters in experiments which had to do with the relationship of the respiratory quotient to the blood sugar level and the response to sugar feeding. With Dr. McHenry, experiments were made in the hope of obtaining from the respiratory quotient some evidence of the effect of vitamin B^1 in the metabolic change of carbohydrate into fat. With Miss Ridout, experiments were carried out to determine the metabolic rates of groups of rats under various conditions. Observations were made with Dr. Haist on a hemidecorticate dog in the fasting state and with Mr. Campbell on a fasting "pituitary diabetic" dog. Dr. Fidlar's co-operation with his various colleagues has been greatly appreciated by them and by the head of the department.

The head of the department gave the Nathan Hatfield Lecture at the College of Physicians and Surgeons in Philadelphia on April 6th, and lectures in Cincinnati, Indianapolis and Dallas during the academic year. He is to give the Stephen Paget Memorial Lecture on June 9th in London, England.

During the past year the head of the department has acted as Chairman of the Scientific Advisory Committee on Nutrition to the Dominion Council of Health.

Surgery, under direction of Professor W. E. Gallie

For the assistance of students and instructors the department is proceeding this year with the development of a museum of applied anatomy. Dr. Ross McKenzie who is attached to both the department of anatomy and the department of surgery has been detailed to make dissections under the supervision of Professor Grant, which will provide permanent demonstration of those anatomical fields that are of interest to the surgeon. Those will be of great value in both undergraduate and graduate teaching.

Through the courtesy of Sir Frederick Banting and the willing co-operation of the Superintendent and Board of Trustees of the General Hospital, an electro-encephalographic machine has been built and installed by the department of medical research in a room adjacent to the neuro-surgical operating room. It is hoped that this apparatus will prove of value in the definite localisation of brain tumours. Having the apparatus close to the operating room will make it possible for the surgeon to apply electrodes directly to the surface of the brain and so obtain records of the changes in bio-electric potentials associated with tumours. Throughout the coming year an attempt will be made by the departments of medical research, medicine and surgery to determine the clinical value of the apparatus.

Dr. Gordon Murray has continued throughout the year the study of the clinical applications of "heparin." An adequate supply of this expensive biological product has been provided through the generosity of Mr. J. Stanley McLean and the Connaught Laboratories. It is now definitely established that it is of great value in all operations on blood vessels and the heart, in preventing thrombosis, and the results in spontaneous venous thrombossis suggest that it is of value in preventing the extension of thrombus. The clinical experiment described last year to determine its value as a preventive of post-operative pulmonary embolism has been continued and is giving encouraging results.

Encouraged by the definite value of heparin in preventing thrombosis at the site of operations on blood vessels, Dr. Murray has enlarged the field of blood vessel suture to include free transplants of veins to replace gaps in arteries. This can be done with a high percentage of success in animals and its possibilities in wounds of great vessels and in tumours and aneurisms are highly interesting. He has also made some progress in an attempt to replace damaged heart valves.

In recognition of his work on heparin, Dr. Murray has been appointed Hunterian Professor in the Royal College of Surgeons of England and he will lecture on the subject in London early in the spring of 1939.

The study conducted by Dr. W. S. Keith on the use of free transplants of nerves that have undergone Wallerian degeneration has now reached a stage where it can be shown that following such operations there is a return of function in animals and that there is a down-growth of axis cylinders through the degenerated graft. No opportunity has occurred in the general surgical service to make use of the principle involved but encouraging results have been reported by Dr. J. A. Sullivan in lesions of the facial nerves in temporal bone. Dr. Keith's work has been supervised by Dr. Linell of the department of pathology.

Dr. Stuart Gordon has continued his experimental studies of the influence of refrigeration on free transplants of skin, fascia and bone. He is also engaged, in conjunction with the department of radiology, in studying the influence of x-ray, such as is used in the treatment of cancer, on skin grafts. These studies have important clinical bearings.

At St. Michael's Hospital, Dr. C. H. Watson and Dr. T. R. Sarjeant have conducted a study of the effect of the sterilamp in preventing the infection of wounds. This study is approaching completion.

Dr. D. R. Mitchell of the department of urology in collaboration with Dr. G. E. Hall, Dr. C. C. Lucas of the department of medical research and Dr. Philip Greey of the department of bacteriology have conducted an exhaustive and successful study of the uses of mandelic acid and sulphanalamide in infection of the kidneys and bladder and urethra. For this work they were awarded a gold medal by the Ontario Medical Association.

In addition to the laboratory studies several important clinical researches have been going on. Drs. R. I. Harris, Charles B. Parker and R. M. Janes have conducted an exhaustive follow up and analysis of the cases of biliary disease encountered in a period of years. Dr. H. W. Wookey has undertaken a study of total oesophagectomy for cancer, which has already yielded encouraging results. An original suggestion that the approach should be made from the right side and include ligation and section of the vena azyos major has proved helpful. Dr. Botterel is engaged in a careful study of the sensation in a patient on whom Dr. K. G. McKenzie did a hemidecortication. Dr. Keith Welsh is continuing his studies of staphyloccus infection. Dr. R. I. Harris has studied the clinical results of the treatment of hernia by sclerosing fluids and has presented interesting experimental and autopsy material illustrating the effects. Dr. E. E. Shouldice has been studying the effect of the use of fascia lata in reconstructing and supporting the transverse metatarsal arch. Dr. R. R. Graham has continued his efforts to find a way to make total gastrectomy for cancer a safer operation. Dr. F. I. Lewis and the head of the department have interested themselves in an effort to induce union of ununited fractures of the neck of the femur by reduction of the displacement and the introduction of a Smith-Peterson nail and a bone graft, without a major operation.

As in former years combined studies in the follow-up clinics have been conducted by this department in conjunction with the department of radiology. These include studies of oral carcinoma, carcinoma of the breast, malignancies of various kinds in the genito-urinary tract, and sarcoma, wherever it may occur. These combined studies have proved most interesting and are leading to a mass of accurate observations upon which authoritative opinions can be based.

The epidemic of infantile paralysis which occured in Toronto in the autumn of 1937 gave the surgical staff at the Hospital for Sick Children a wonderful opportunity for service under pressure. Their particular contribution consisted of the development of a type of splint which could be easily applied and which would prevent, to a large degree, the deformations which so quickly follow the acute stage of the disease. In conjunction with the medical staff they organised and managed successfully a large special hospital devoted solely to poliomyelitis and altogether did an excellent piece of work.

Therapeutics, under direction of Professor R. F. Farquharson

As formerly, research work in the department of therapeutics has been closely associated with similar activities in the department of medicine, particular attention being paid to certain aspects of the therapy of various haemopoietic and endocrine diseases.

Report of the School of Engineering Research

The following researches have been in progress during the past year.

Department of Civil Engineering

Under the direction of Professor C. R. Young

A research on the lateral supporting force for steel columns and struts has been continued. An analysis of the experimental results has been completed and a paper reporting these results is in preparation.

Under the direction of Professor T. R. Loudon

A research has been in progress into the effect of "cut outs" in monocoque construction fuselages by means of the Photo Elastic method. This problem was suggested by the Department of Transport through the Aeronautic Committee of the National Research Council. The preliminary results have been presented in a paper to the Aeronautics Sections of the American Society for the Advancement of Science.

Department of Mining Engineering

Under the direction of Professor H. E. T. Haultain

The study of size analysis of fine powders has been continued.

Under the direction of Professor J. T. King

(with S. E. Wolfe)

The investigation on methods for the determination of gold in cyanide solutions was continued. A paper on this was presented in *Canadian Mining Journal*, January, 1938.

(with S. E. Wolfe and M. Hewer)

Further study of the iron-nail method of assay was made, using additional reagents, with the objective of improving the method.

(with M. Hewer)

A research was commenced on the determination of impurities in silver beads from cupellation.

Under the direction of Professor F. C. Dyer

An adaptation of ore dressing methods to the treatment of soil for the concentration of seeds for analysis. This research has been completed and will appear in the July number of *Scientific Agriculture*.

The development of a new dry process for the separation of particles, in particular some kinds of seeds, has been brought to a semi-commercial stage.

Department of Mechanical Engineering

By Professor R. W. Angus

The investigation on water hammer which was in progress last year has been continued. This problem has become very important indeed in connection with hydro-electric plants on account of the sudden and great variations in load which frequently occur in connection with these plants. Any variation in load is accompanied by a change of velocity of the water in the penstocks, draft tubes and other passages, and this change of velocity always gives rise to abnormal pressures which may, and often do, become very dangerous.

Some of the operating and designing companies have had so much difficulty that they have spent much time determining the pressure rises which occur and have conferred with Professor Angus on the solution of their problems. The work formerly had to do with single pipes of uniform and of variable diameter, but during the past year the investigation was carried out so as to apply the method devised to branched pipes, as well as pipes with surge tanks and various complicated system of piping.

In addition to the application to hydro-electric plants, the methods developed have been used in connection with waterworks systems, and studies have been made for some of the municipal waterworks engineers, and the results have been used by them in designing their systems.

As a result of the investigation, three papers have been published and appear in the transactions of engineering societies and in the *Canadian Engineer*. The work is being continued throughout the next session and further papers are in preparation.

Under the direction of Professor R. W. Angus
(with G. Gung)

During the session a postgraduate student, Mr. George Gung, carried out investigations, under the direction of Professor Angus, on flow in open channels and on other subjects. The first investigation was the determination of discharge coefficients for siphon spillways and a study of the connection of these coefficients with the Reynolds number. For this investigation, two models of the same spillway were made, one of the models being twice the size of the other, and a study of the flow conditions through them was made, and is still in progress.

A further investigation was carried out on flow over weirs, to determine the effect of the width of the crest on the coefficients and behaviour of the weirs. For this purpose, weirs of different crest width from one inch up to twelve inches were set up in the glass trough in the hydraulic laboratory, and the results of these studies have been compiled and a report is about ready. This study, however, will have to be continued, as only the preliminary work has been done in connection with it.

The investigation included the effect of submersion of the crest, the water being carried to different depths below the weir. In this same connection, an attempt was made to determine the nature of flow in a long channel with horizontal floor, a flat plate being set in the glass trough, and conditions of flow over it were studied. While a good deal of progress was made with this investigation as well, much still remains to be done and a study of this will be continued during the next session.

There has been need of information with regard to the action of valves in pipe lines, and to determine this, three valves were set up in succession in a pipe line and the coefficients for these were determined, as well as the pressure drop for different gate opening, in each case. This study proved of very great interest and it will be of value in connection with hydraulic practice, so that it will also be continued during the next session with larger sized valves and with other types. A report of the work done during the present session has been prepared.

Under the direction of Professor E. A. Allcut
(with F. C. Ewens and R. J. Birss)

The investigations on the properties of heat insulating materials were continued, with particular reference to air infiltration and the influence thereon of the density and structure of commercial materials. Studies were also made on heat transmission across air spaces of various shapes and sizes.

School of Architecture

Under the direction of Professor E. R. Arthur

Research has been continued on the old buildings of Ontario.

In connection with the restoration of St. Andrew's, Niagara-on-the-Lake, research of an historical nature was undertaken. Papers, drawings, etc., were examined in the Provincial archives and in the Niagara Historical Museum. Letters were sent to the descendants or relatives of former ministers.

The church has in its possession the minutes of Vestry Meetings back to 1792 and records of baptisms of an even earlier date.

As a result of this research a brochure, "St. Andrew's Church", was published under the auspices of the School of Engineering Research.

There seems to be a growing interesting in the subject of the early architecture of the Province. Many people have written to the School offering or seeking information.

A brochure on the Early Buildings of Ontario, by E. R. Arthur, with a foreword by John Alford, is being published at the University Press under the auspices of the Ontario Department of Education.

Department of Applied Physics

Under the direction of Professor K. B. Jackson

The research on a new form of light source for the inspection of specular surfaces has been continued and extended.

(with D. H. Hamley and L. E. Jones)

The research on photographic sensitometry has been continued.

Department of Chemical Engineering

Under the direction of Professor J. W. Bain

(with B. Marks)

An investigation has been in progress for the purpose of determining the nature of the reaction which was found to take place between sodium sulphide and lignin.

(with N. R. Fasken)

A study was made of the oxidation of lignin with periodic acid and some interesting data have been obtained.

(with G. V. Jansen)

The research on an investigation of the chlorination of spruce wood, and of the resulting chlorolignin was completed and published in the July, 1937, issue of the *Canadian Journal of Research.*

Under the direction of Professor M. C. Boswell

(with W. H. Rapson)

The use of glucose as a source of methyl groups in the methylation of glycin was investigated. This research is still in progress.

Under the direction of Professor E. G. R. Ardagh

(with G. T. Eaton)

A research into the reactions of thiophene has been continued and it is expected that results which will warrant publication will be obtained in the not distant future.

Under the direction of Professor E. A. Smith

(with W. L. Phene)

An investigation has been in progress on the solvent refining of lubricating oils, with special reference to Athabasca bituminous oil.

(with G. V. Jansen and E. DeLuca)

A study of the penetration of dyes on conditioned silk has been in progress. The results of the investigation will be published in the near future.

Under the direction of Professor R. R. McLaughlin

(with G. P. Beal)

A research on the ageing of rubber due to the presence of copper salts has been completed and the reason for the deleterious action determined. Results will be published in the near future.

Department of Electrical Engineering

Under the direction of Professor H. W. Price

Absolute reliability of automatic electric control circuits is a matter of great importance. If the relays employed must operate with contact closing force of the order of 1 gram, unreliability in closing low voltage small current control circuits becomes a serious trouble. An investigation is in progress in the hope of finding the cause and method of avoiding such failures.

(with C. Kent Duff)

An investigation was undertaken of the conditions to be met in automatically regulating the frequency of alternators driven by direct current motors, when subject to sudden and large changes in load. Regulators have been developed, constructed and proved in service to meet the requirements in performance and reliability.

By J. E. Reid

Mr. Reid has discovered an ingenious and simple method of obtaining automatically drawn graphs of the torque exerted by any type and size of electric motor during the starting period. It will be reported in detail when proved experimentally on a variety of motors.

Under the direction of Professor V. G. Smith

The principles on which a cathode Ray Oscillographic Wattmeter could be made to operate were studied and an investigation into the suitability for the purpose of some commercial vacuum tubes was made. This research will be continued.

A theoretical study of transformer leakage inductance and its relation to the equivalent circuits, particularly with respect to its division into primary and secondary components, was completed.

Under the direction of Professor B. deF. Bayly

A research on the analysis and synthesis of complex alternating current wave forms is in progress. The first part of this problem requires the development of a string oscillograph which is characterised by ease of operation and more accurate and comprehensive response than has been hitherto obtained. The design of the optical system is one of the main problems of such a piece of equipment. This part of the work is practically complete.

The numerical value of an integral can be found very exactly by a method due to Gauss. So far the constants have only been known up to ten ordinates. The values of these constants for twelve ordinates were calculated to sixteen significant figures. These results are of great usefulness in statistical work. They have been published.

Report on Research in the Faculty of Dentistry

Research in dental problems has been very active during the past year and although definite conclusions have not been reached in these intricate questions, still satisfactory progress has been made.

In the Department of Periodontology Dr. Harold K. Box carried out certain investigations on the physiological properties of saliva and an attempt was made to correlate these findings with the lesions known as erosion and cervical caries, and with calculus formation. Salivary enzymes concerned with the degradation of starch were studied, and the relation of these enzymes to the retention of carbohydrate debris on the teeth was investigated. A paper on the relation of the liquefying amylase of saliva and amylopectin to dental caries is now ready for publication.

Certain studies on the internal microflora of cereal grain foods as an acidogenic factor in dental caries have also been conducted in the department. The results of this investigation are to be published in the near future.

Dr. Frank M. Lott has continued his research on glass as a denture base, and on the anatomy of the temporo-mandibular joint in connection with mandibular movements. He has also made a study of the past and present conditions of the Dental Corps of the armies of Britain, United States, Australia, New Zealand and Canada to assist in the reorganisation of the Canadian Army Dental Corps.

Miss Doris Berry has continued her work on Phosphatase Activity of mixed, (resting and stimulated) saliva—clinical application of method, and also the importance of dietary correction in arrest of dental caries—clinical observations.

Dr. Elmer C. Purdy and Dr. Arthur W. Ham have continued their investigation into the relationship of the mineral content of teeth to disturbances of the calcium and phosphorus metabolism.

Dr. T. C. Whang, of West China Union University, who was awarded the B.Sc. (Dent.) degree, made a study of Dental Ceramics: the composition and properties of dental porcelain together with a technique for the construction of crowns and inlays. He intends to write a text-book in Chinese on Dental Ceramics.

Dr. D. P. Sutton completed his research on the extrusive influence of epidermal processes on the teeth and alveolar tissues. and was awarded the B.Sc. (Dent.) degree.

Candidates proceeding to the B.Sc. (Dent.) degree are carrying on the following research:

Dr. Wm. Garard: An investigation to establish the relative toxicity of Monocaine and Procaine Hydrochloride, in the Department of Pharmacology under the direction of Professor Henderson and Dr. Lucas.

Dr. M. N. Rockman: An investigation of the effect of x-rays on blood, bone marrow and skin, using animals in his experimental work.

Dr. T. N. Scott who is proceeding to the M.Sc. (Dent.) degree is making a study of the anatomy and histology of the semi-edentulous and edentulous mouth.

Report of work carried on under the wind tunnel committee

A research has been conducted during the year into the effect of carrying canoes on the lower wing of a biplane. The results obtained are being tabulated and it is hoped to issue a report at an early date.

A calibration of thermometers in varying wind speeds was conducted for the Dominion Meteorogical Service by Mr. Middleton of that department by use of the University of Toronto Wind Tunnel.

Certain model tests were also conducted for the de Havilland Aircraft of Canada Limited.

At the present time, tests are being made on the model of a small low wing single seat monoplane which has been designed at the University in an effort to solve the problem of a reasonably priced light plane for sport flying.

(14) PUBLICATIONS

FACULTY OF ARTS

Department of Anthropology

Hart, C. W. M.—*Social Evolution and Modern Anthropology.* (Essays in Political Economy, edited by H. A. Innis, pp. 99-116).

McIlwraith. T. F.—*Recent Publication in Canadian "Ethnology, Anthropology and Archaeology".* (Canadian Historical Review, March 1938, pp. 103-110).

Department of Applied Mathematics

Griffith, B. A.—*On the steady two-dimensional motion of a viscous liquid past a fixed circular cylinder.* (Journal of Mathematics and Physics, Vol. 17, pp. 5-42, 1938).

Stevenson, A. F. C.—*A generalisation of the equations of the self-consistent field for two-electron configurations.* (Proc. Roy. Soc. A, Vol. 160. pp. 588-604, 1937).

On the lower bounds of Weinstein and Romberg in quantum mechanics. (Phys. Rev., Vol. 53, p. 199, 1938).

Synge, J. L.—*On the concept of gravitational force and Gauss's theorem in general relativity.* (Proc. Edinburgh Math. Soc., Vol. 5, pp. 93-102, 1937).

The missing link between the engineer and the mathematician. (Journal of Engineering Education, Vol. 28, pp. 122-131, 1937).

The equilibrium of a thin flat membrane of compressible material. (Trans. Roy. Soc. Canada, Sect. III, Vol. 31, pp. 57-81, 1937).

Relativistic hydrodynamics. (Proc. London Math. Soc., Vol. 43, pp. 376-416, 1937).

Geometrical optics: an introduction to Hamilton's method. (Cambridge University Press. 1937).

DEPARTMENT OF ARCHAEOLOGY

Thompson, H. A.—*The Pnyx, the Seat of Athenian Democracy.* (The School, Secondary Edition, January, 1938, pp. 410-417).

White. W. C.—*Chinese Temple Fresco, No. 1.* (Royal Ontario Museum of Archaeology, Bulletin No. 12).

Tomb Tile Pictures of Ancient China, Their Date and Their Making. (Illustrated London News, July 24, 1937, pp. 170-173).

Hellenic Influence on Chinese Art: T'ang Rhyton Cups Modelled on Western Forms. (Illustrated London News, April 23, 1938, p. 710).

DEPARTMENT OF ASTRONOMY

Heard. J. F.—*Radial velocities from absorption lines for Nova Lacertae.* (Pub. Am. Astron. Soc., v. 9, no. 2, 1938).

Hogg. Mrs. H. S.—*One hundred and thirty-two new variable stars in five globular clusters.* (Publication of Dominion Astrophysical Observatory).

The bright nova of 1860 in the globular cluster Messier 80. and its relation to supernovae. (J.R.A.S.C. and D.D.O. Communication. no. 1).

Millman, P. M.—*Meteor News.* (Journal R.A.S.C., 1937).

DEPARTMENT OF BIOLOGY

Baillie. W. H. T.—*Mendelism.* (University of Toronto Medical Journal, March 1938, Vol. XV, No. 5, pp. 236-241).

Coventry, A. F.—*Notes on the breeding of some Cricetidae in Ontario.* (Journal of Mammalogy, vol. 18, pp. 489-496, 1937).

Craigie. E. H.—*The Blood Vessels of the Brain Substance in some Amphibians.* (Proceeding of the American Philosophical Society, vol. 78. pp. 615-649. 1938).

Dymond. J. R.—*External Parasites of Bats.* (Canadian Entomologist. January 1938).

Fisher. K. C. and Cameron, J. A.—*The frequency of the carbon monoxide poisoned heart at different mean light intensities.* (Jour. Cell. and Comp. Physiol., Vol. 11. 1938).

Fisher, K. C. and Ohnell, R. (introduced by L. Irving)—*The steady state frequency of the embryo fish heart at different cyanide concentrations.* (Amer. Jour. Physiol. Proc. 1938).

Ford. Miss N.—*Guides Go Newting.* (The Canadian Guider, Vol. 6. No. 4. p. 4).

What's News in Ponds? (Adult Learning, Vol. 2, No. 7, p. 12).

Why We Taste Differently. (Special Class Teacher, Vol. 12. No. 3. p. 9).

Ford. Miss N. and MacArthur. J. W.—*A Biological Study of the Dionne Quintuplets —an Identical Set.* (Study I of Collected Studies on the Dionne Quintuplets, University of Toronto Press, 1937).

Fry, F. E. J.—*The summer migration of the cisco, Leucicthys artedi (Le Sueur). in Lake Nipissing, Ontario.* (Publications of the Ontario Fisheries Research Laboratory. Vol. LV. University of Toronto Studies. Biological Series. No. 44. 1937).

Harkness. W. J. K.—*Notes on introduced capercailzie.* (Can. Field Nat., vol. 52. p. 43, March 1938).

Huntsman. A. G.—*"Races" and "Homing" of Salmon.* (Science. vol. 85. pp. 582-583. June 1937).

The cause of periodical scarcity in Atlantic salmon. (Trans. Roy. Soc. Canada, Ser. 3. vol. 31. Sect. V. pp. 17-27. 1937).

North American Atlantic salmon. (Cons. Perm. Inter. Explor. Mer.. Rapp. et Proc.-Verb.. vol. 101, Pt. 4. pp. 9-15. 1938).

"Spawning Urge", "Homing Instinct", and "Waiting" in Salmon Return. (Nature, vol. 141, pp. 421-422, March 5, 1938).

Report on the Margaree Salmon and Trout Investigations for 1937. (Ann. Rep. Biol. Bd. Can., for 1937, pp. 64-66, March, 1938).

Sea Behaviour in Salmon. (Salmon and Trout Magazine, No. 90, pp. 24-28, March, 1938).

MacArthur, J. W.—*Reliability of dermatoglyphics in twin diagnosis.* (Human Biology,, vol. 10, pp. 12-35, 1938).

Eugenical Sterilisation. A book review. (Social Welfare, vol. 17, pp. 15-17, 1937).

MacArthur, J. W. and Butler, L.—*Size inheritance and geometric growth processes in the tomato fruit.* (Genetics, vol. 23, pp. 253-268, 1938).

Piersol, W. H.—*Abstracts.* (Biological Abstracts, Vol. 11, Nos. 3 and 5).

Walker, E. M.—*Grylloblatta, a Living Fossil.* (Transactions of the Royal Society of Canada, 1937, Series III, vol. 26, pp. 1-10).

White, H. C. and Huntsman, A. G.—*Is Local Behaviour in Salmon Heritable?* (Journ. Fish. Res. Bd. Can., vol. 4, No. 1, pp. 1-18, March, 1938).

Department of Botany

Biggs, Miss R.—*Cultural studies in the Thelephoraceae and related fungi.* (Mycologia 30: pp. 64-78, 1938).

The species concept in Corticium coronilla. (Mycologia 29: pp. 686-706, 1937).

Groves, J. W.—*The perfect stage of Catinula turgida.* (Mycologia 30: pp. 46-53, 1938).

Nobles, Miss M. K.—*Production of conidia by Corticium incrustans.* (Mycologia 29: pp. 557-566, 1937).

Taylor, T. M. C.—*A catalogue of the Vascular Plants.* (Botanical Investigations in Batchawana Bay Region, Lake Superior, by R. C. Hosie). (Bulletin No. 88, Biological Series No. 23, National Museum of Canada, Dept. of Mines and Resources).

Walford, G. J. M.—*Studies of the Tomato in relation to its storage. I—A survey of the effect of maturity and season upon the respiration of greenhouse fruits at 12.5° C.* (Canadian Journal of Research C. 16; pp. 65-83, 1938).

Department of Chemistry

Baer, E.—*Synthese optisch-aktiver Glyceride.* (Die Naturwissenschaften, 1937, 25). Jahrg.. H. 39. pp. 588-589).

Synthese der biologischen Glycerin—phosphorsäure(-)1. (Die Naturwissenschaften, 1937, 25. Jahrg., H. 39, p. 589).

Uber die synthese eines Glycerin-d^1 *aus optisch-aktiven Aceton-d-glycerinaldehyd.* (Helvetica Chimica Acta, Vol. XX, Fasc. 5, 1937, p. 129).

Synthesen niederer Methyl-zucker. (Helvetica Chimica Acta, Vol. ZX, Fasc. 5, 1937, p. 150).

Zur Kenntnis d. l-Tartron-aldehyd-säure. (Helvetica Chimica Acta, Vol. XX, Fasc. 5, 1937, p. 151).

Beamish, F. E. and Forbes, E. C.—*Surface Effects of the Platinum Metals on Silver Assay Beads.* (Industrial and Engineering Chemistry, Analytical Edition, August 15, 1937).

Beamish, F. E. and Seath, J.—*Separation of Gold from Tellurium and Selenium.* (Industrial and Engineering Chemistry, Analytical Edition, August 15, 1937).

Beamish, F. E., Thompson, S. O. and Scott, M.—*Determination of Gold and Platinum and Detection of Platinum Metals.* (Industrial and Engineering Chemistry, Analytical Edition, September 15, 1937).

Beamish, F. E. and Scott, M.—*Analysis of Platinum Metals-Silver Assay Bead.* (Industrial and Engineering Chemistry, Analytical Edition, October 15, 1937).

Beamish, F. E., Russell, J. J. and Seath, J.—*Determination of Osmium in a Lead Assay Button.* (Industrial and Engineering Chemistry, Analytical Edition, October 15, 1937).

Bernstein, H. J. and Martin, W. H.—*The Raman Spectra of Some Oximes.* (Trans. Roy. Soc. Canada, Vol. XXXI, p. 105, 1937).

The Raman Spectra of the Hydrochlorides of Various Compounds. (Trans. Roy. Soc. Canada, Vol. XXXI, p. 95, 1937).

Cragg, L. H.—*The Sour Taste. Threshold Values and Accuracy, the Effects of Saltiness and Sweetness.* (Trans. Roy. Soc. Can., Vol. III, No. 31, pp. 131-140, 1937).

Fischer, H. O. L.—*Synthese optisch-aktiver Glyceride.* (Die Naturwissenschaften, 1937, 25. Jahrg., H. 36, pp. 588-589).

Synthese der biologischen Glycerin—phosphorsäure(-). (Die Naturwissenshaften, 1937, 25. Jahrg., H. 36, p. 589).

Uber die Synthese eines Glycerin-d¹ aus optisch-aktivem Aceton-d-glycerinaldehyd. (Helvetica Chimica Acta, Vol. XX, Fasc. 5. 1937, p. 129).

Synthesen niederer Methyl-zucker. (Helvetia Chimica Acta, Vol. XX, Fasc. 5, 1937, p. 150).

Zur Kenntnis d. l-Tartron-aldehyd-säure. (Helvetica Chimica Acta, Vol. XX, Fasc. 5. 1937, p. 151).

Gordon, A. R.—*The Diffusion Constant of an electrolyte and its change with concentration.* (Journal of Chemical Physics, Vol. 5, p. 522, 1937).

The Free Energy of Acetylene. (Journal of Chemical Physics, Vol. 6, p. 219, 1938).

Gordon, A. R. and LeRoy, D. J.—*The transference numbers for potassium acetate in aqueous solution.* (Journal of Chemical Physics, Vol. 6, June, 1938).

Miller, W. Lash—*Wildiers' Bios, reporting work of Miss Elder, Miss Eastcott, C. Marchant, P. P. Paisley, Miss Stantial and M. Wayman.* (Trans. Roy. Soc. Can., Vol. III, No. 31, pp. 159-162, 1937).

DEPARTMENT OF CLASSICS

Cochrane, C. N.—*Review of "Augustus" by John Buchan.* (University of Toronto Quarterly, VII, 2, January 1938).

Norwood, G.—*Classics—a section of "Letters in Canada".* (Toronto Quarterly, April 1938).

MacKay, L. A.—*Propertius II. 30 Quo fugis a demens.* (Classical Journal, Vol. XXXIII, No. 3, December 1937).

Horace, Odes, IV. 5. 17-20. (Classical Journal, Vol. XXXIII, No. 6, March 1938).

Robertson, H. G.—*Review of von Erffa, Aidos und verwandte Begriffe.* (American Journal of Philology).

DEPARTMENT OF ENGLISH

Birney, E.—*The Moon-Wist of Audrey Brown.* (Canadian Forum, August 1937, pp. 176-177).

Humors of Housman (review). (Canadian Forum, March 1938, pp. 425-426).

The Two William Faulkners. (Canadian Forum, June 1938, pp. 84-85).

Brown, E. K.—*Edith Wharton.* (Etudes anglaises, January 1938).

English Culture. (Canadian Defence, Nelsons, Toronto, 1937).

Poetry, in "Letters in Canada", 1937. (University of Toronto Quarterly, April 1938).

New England: The Recent Past. (University of Toronto Quarterly, October 1937).

A. Siegfried: Le Canada, puissance internationale (review). (Etudes anglaises, October 1937).

E. Atkins: Edna St. Vincent Millay and her Times (review). (American Literature, January 1938).

H. V. Routh: Towards the Twentieth Century (review). (Modern Philology, May 1938).

Fisher, J.—*Review of "William Shenstone: an eighteenth century portrait" by A. R. Humphreys.* (Modern Philology, May 1938, pp. 461-462).

MacGillivray, J. R.—*Canadian Fiction, 1937.* (University of Toronto Quarterly, April 1938).

Pratt, E. J.—*The Fable of the Goats and other poems.* (Macmillans, 1937).

Woodhouse, A. S. P.—*"Puritanism and Democracy".* (Canadian Journal of Economics and Political Science (Feb. 1938), IV, 1-21).

"Letters in Canada, 1937", ed. A. S. P. Woodhouse. (University of Toronto Quarterly (Apr. 1938), VII, 339-450 (also reprinted separately, Univ. of Toronto Press).)

Report for Canada in Bibliography of English Language and Literature, vol. XVII (for 1936), Modern Humanities Research Association. (Cambridge University Press, 1938).

Book reviews, including a review article on A. C. Lovejoy's The Great Chain of being. (Journal of English and Germanic Philology (Jan. 1938), XXXVII, 109-14).

DEPARTMENT OF FRENCH

Rouillard, C. D.—*Montaigne et les Turcs.* (Revue de littérature comparée, 18e année, no. 2, avril-juin 1938).

Trethewey, W. H.—*A review of "Quelques aspects de la littérature anglonormande: leçons faites a l'Ecole des Chartes, Paris, E. Droz, 1935."* (Zeitschrift für romanische Philologie, December, 1937).

Walter, F.—*French-Canadian Letters, 1936.* (Letters in Canada, University of Toronto Quarterly, Vol. VI, no. 4, 1937).

DEPARTMENT OF GEOLOGY

Fritz, Miss M. A.—*Resemblance of the coral Multisolenia to Desmidopora.* (Journal of Palaeontology, Vol. 12, No. 3, May, 1938).

Devonian fossil zones in wells from southwestern Ontario. (American Association for the Advancement of Science, June, 1938).

Langford, G. B.—*Geology of the McIntyre Mine.* (Mining Technology, May, 1938).

Moore, E. S.—*Geology of the Afton-Scholes Area, Ontario.* (Ontario Department of Mines, Vol. 45, Part 6).

Deep Oxidation in the Canadian Shield. (Bull. Can. Inst. of Mining and Metallurgy, May, 1938).

Okulitch, V. J.—*Notes on Fletcheria Incerta (Billings) and Fletcheria sinclairi n. sp.* (Royal Canadian Institute, Transactions. No. 46, vol. XXI, pt. 2, pp. 313-317, October, 1937).

The Trenton and Black River Formations between Montreal and Quebec. Abstract. (Proceedings of 1937 Meeting, Palaeontological Society of America).

The Supposed Columella in Tetradium fibratum Safford. (Journal of Palaeontology, Vol. 12, No. 3, April-May, 1938).

Russell, L. S.—*New non-marine Mollusca from the Upper Cretaceous of Alberta.* (Transactions Royal Society of Canada, ser. 3, vol. 31, sec. 4, pp. 61-66, pl. 1, 1937).

Satterly, J.—*Glacial Lakes Ponask and Sachigo, District of Kenora (Patricia Portion), Ontario.* (Journal of Geology, Vol. XLV, No. 7, October-November, 1937, pp. 790-796).

Preliminary Report on Sandy (McInnes) Lake. Kenora District (Patricia Portion). (Ontario Dept. of Mines. Release October 14. 1937. p. 9, map).

Geology of the Stull Lake Area. (Ontario Dept. of Mines Annual Report, Vol. XLVI, Part 4. 1937. pp. 1-31, 18 illus., map, 1938).

DEPARTMENT OF GERMAN

Boeschenstein. H.—*Zur schweizerischen Kulturpolitik.* (Bern, 1937).

Kanadische Lyrik. (Bern, 1938).

DEPARTMENT OF HISTORY

Creighton. D. G.—*The Commercial Empire of the St. Lawrence 1760-1850.* (Toronto, The Ryerson Press: New Haven. Yale University Press. 1937, pp. x. 441).

The Economic Background of the Rebellions of 1837. (Canadian Journal of Economics and Politicial Science. Vol. 3. No. 3, August 1937, pp. 322-34).

The Victorians and the Empire. (Canadian Historical Review. June 1938, pp. 138-53).

Flenley, R.—*The Russian Revolution, 1917-1937.* (University of Toronto Quarterly, October, 1937, pp. 35-55).

Glazebrook, G. P. de T.—*A history of transportation in Canada.* (The relations of Canada and the United States. Toronto, New Haven and London, 1938).

Transportation, 1887-1937. (Saturday Night, January 1. 1938).

Transportation. (Encyclopedia of Canada).

(ed.) *The Hargrave Correspondence, 1821-1843.* (Champlain Society. Toronto, 1938).

DEPARTMENT OF ITALIAN AND SPANISH

Cano. J.—*Easy Spanish Plays.* (D. C. Heath & Co., New York, 1938. 226 pages).

Review: Una bibliografia de versificacion espanola. (Hispanic Review. Vol. VI. 1938).

Goggio, E.—*A review of: Doyle. Henry Grattan. George Ticknor. Together with Ticknor's "Lecture on the Best Methods of Teaching the Living Languages".* (Edited. with notes, by Henry Grattan Doyle). (The Modern Language Journal, Vol. XXII, No. 5, February. 1938).

Shaw, J. E.—*Bibliography of American Studies in Italian.* (Italica. September and December. 1937; March and June, 1938).

American Bibliography for 1937: Italian. (Publications of the Mod. Lang. Assoc. of America. vol. LII. Supplement).

The Lady "Philosophy" in the Convivio. (Dante Society of Cambridge. Mass. 1938).

DEPARTMENT OF LAW

Auld. F. C.—*The Canadian Abridgement.* (Vol. VIII. Choses in Action to Companies; Vol. IX. Companies concluded; Vol. X. Compensation to Conspiracy;; Vol. XI, Constitutional Law to Contracts; Vol. XII. Conversion to Costs; Annual Volume for 1937. Burroughs and Co. (Eastern). 1937-1938).

Lord Mansfield. (2 University of Toronto Law Journal. pp. 436 ff.).

Sociology of Law. (2 University of Toronto Law Journal. pp. 465 ff.).

Roman Law and Common Law. (2 University of Toronto Law Journal. pp. 475 ff.).

Le régime démocratique et le droit civil moderne. (2 University of Toronto law Journal. pp. 477 ff.).

Der individualistische Staatsbegriff und die juristische Staatsperson. (2 University of Toronto Law Journal, p. 495).

Le droit civil français. (2 University of Toronto Law Journal. p. 498).

Finkelman, J.—*Law of Picketing in Canada.* (2 University of Toronto Law Journal, pp. 344 ff.).
The Literature of Administrative Law. (2 University of Toronto Law Journal, pp. 454 ff.).
Legislative Processes. (2 University of Toronto Law Journal, pp. 468 ff.).
The Law of Torts. (2 University of Toronto Law Journal, pp. 486 ff.).
Assessment and Rating. (2 University of Toronto Law Journal, pp. 487 ff.).
Methods of Industrial Peace. (2 University of Toronto Law Journal, pp. 509 ff.).
Supreme Court of the United States. (17 International Affairs, pp. 299).
Interstate Commerce Commission. (15 Canadian Bar Review, pp. 667 ff.).
Some Aspects of the Law Relating to Strikes. (16 Canadian Bar Review, April, 1938).

Gray, K. G.—*Recent Public Health Legislation in Ontario.* (Canadian Public Health Journal, August, 1937).
The Common Nueroses. (Canadian Medical Association Journal, January, 1938).
The Roots of Criminal Evil. (2 University of Toronto Law Journal, pp. 414 ff.).
Criminology. (2 University of Toronto Law Journal, pp. 463 ff.).
Crime and Justice. (2 University of Toronto Law Journal, pp. 465 ff.).

Hancock, J. E. M.—*Principles of Contract.* (2 University of Toronto Law Journal, pp. 416 ff.).
Conflict of Laws. (2 University of Toronto Law Journal, pp. 449 ff.).
The Law of Evidence. (2 University of Toronto Law Journal, pp. 489 ff.).
The Elements of Contract. (2 University of Toronto Law Journal. pp. 496 ff.).

Kennedy, W. P. M.—*The Constitution of Canada: Its Development, Law and Custom.* (Clarendon Press, 1937, pp. 665).
The British North America Act. (15 Canadian Bar Review, pp. 393 ff.).
Canadian Constitutional Law. (Politica, September, 1937).
Annual Survey of Constitutional and Administrative Law. (Canadian Historical Review, September, 1937).
Sir Edmund Walker. (Supplement to Dictionary of National Biography, 1922-1930).
Canada and the British Army. (52 English Historical Review, pp. 50 ff.).
Constitutional Laws of the Empire. (Edinburgh Juridical Review, March, 1938).
The Mission of Lord Durham. (Edinburgh Juridical Review, March, 1938).
An International Law Journal. (Edinburgh Juridical Review, June, 1938).
Imperial Constitutional Law. (Journal of the Society of Teachers of Law, 1938).
Development of Dominion Status. (Canadian Historical Review. March, 1938).
The Crown, the Empire and Law. (University of Toronto Quarterly. July, 1937).
The Arbitration Journal and the Modern Law Review. (2 University of Toronto Law Journal, pp. 364 ff.).
The New York Law Revision Commission. (2 University of Toronto Law Journal, pp. 366 ff.).
The King and His Dominion Governors. (2 University of Toronto Law Journal, pp. 408 ff.).
Judges and Law Reform. (2 University of Toronto Law Journal, pp. 414 ff.).
The Law of Libel and Slander. (2 University of Toronto Law Journal. pp. 427 ff.).
Some Literature of Constitutional Law 1936-1937. (2 University of Toronto Law Journal, pp. 432 ff.).
The Commerce-Power versus State Rights. (2 University of Toronto Law Journal. pp. 437 ff.).
American Legal History. (2 University of Toronto Law Journal, pp. 441 ff.).
Treasure Trove in Law and Practice. (2 University of Toronto Law Journal, pp. 448 ff.).

Some Literature of Law and International Affairs, 1936-1937. (2 University of Toronto Law Journal, pp. 457 ff.).
South African Private Law. (2 University of Toronto Law Journal, pp. 462 ff.).
The Constitutional Law of Northern Ireland. (2 University of Toronto Law Journal, pp. 479 ff.).
The Reissue of Maitland. (2 University of Toronto Law Journal, pp. 479 ff.).
The Law of Copyright. (2 University of Toronto Law Journal, pp. 481 ff.).
Judicial Precedent in Scots Law. (2 University of Toronto Law Journal, pp. 496 ff.).
The Tichborne Case. (2 University of Toronto Law Journal, pp. 505 ff.).
Les dispositions testamentaires au Canada. (Etudes en l'honneur d'Edouard Lamber. Faculté de Droit, Lyon, 1938, vol. I).
Comparative Federal Law of the United States, Australia, Switzerland and the Argentine. (Report for the Royal Commission on Dominion-Provincial Relations, 1938).

MacKenzie, N. A. M.—*Canada and the Law of Nations.* (Ryerson Press, 1937, pp. xxvii, 567).
The Legal Satus of Aliens in the Pacific. (Oxford Press, 1937, pp. xii, 374).
The Treaty-making Power in Canada. (League of Nations' Brief to the Rowell Commission, 1937).
The Foreign Policy of Canada. (Proceedings of the Conference on Canadian-American Relations, Kingston, 1937, pp. 233 ff.).
The Privy Council and Recent Social Legislation. (14 Interdependence, pp. 103 ff.).
Problems of Population and Persons. (15 Canadian Defence Quarterly, pp. 84 ff.).
Canadian-American Relations: Domestic, Foreign. (Summer Institute on Current Affairs, Western Reserve University, 1937).
Conflict of Laws. (2 Universiay of Toronto Law Journal, pp. 469 ff.).
International Law. (2 University of Toronto Law Journal, pp. 476 ff.).
United States Policies. (16 International Affairs, pp. 954 ff.).
Great Britain and the Law of Nations. (16 International Affairs, pp. 785 ff.).
The Settlement of Canadian-American Disputes. (3 Canadian Journal Economics, pp. 579 ff.).
International Law. (15 Canadian Bar Review, pp. 743 ff.).
The Law of Peace. (15 Canadian Bar Review, pp. 670 ff.).
Japan in Asia. (Saturday Night, January, 1938).
Czecho-Slovakia. (The Canadian Forum, December, 1937).
Japan's Difficulties. (Saturday Night, March, 1938).
The City of God. (The Canadian Forum, December, 1937).
Transactions of the Grotius Society. (32 American Journal of International Law, pp. 210 .ff).

DEPARTMENT OF MATHEMATICS

Brauer, R.—*Sur la multiplication des caractéristiques des groupes continus et semisimples.* (Comptes rendus de l'Académie des Sciences, Paris, Vol. 204, p. 1784, 1937).
On algebras which are connected with the semisimple continuous groups. (Annals of Mathematics, Vol. 38, p. 857, 1937).
On normal division algebras of index 5. (Proceedings of the National Academy of Sciences, Washington, June, 1938).

Coxeter, H. S. M.—*Abstract definitions for the symmetry groups of the regular polytopes, in terms of two generators: Par II.* (Proc. Camb. Phil. Soc., Vol. 33, pp. 315-324, 1937).

Coxeter, H. S. M., Du Val, P., Flather, H. T. and Petrie, J. F.—*The fifty-nine icosahedra.* (University of Toronto Studies, Mathematical Series No. 6, pp. 1-26, 1938).

Robinson, G. deB.—*On the fundamental region of an orthogonal representation of a finite group.* (Proc. London Math. Soc., (2), 43, 1937, pp. 289-301).

DEPARTMENT OF MINERALOGY

Berry, L. G.—*On the Pseudocopiapite of Unemach.* (University of Toronto Studies, Geological Series. 1938).

Dadson, A. S.—*The Influence of Electric Potential in Ore Deposition in the Timiskaming District, Ontario.* (University of Toronto Studies, Geological Series, 1938).

Meen, V. B.—*Cleavage Luminescence in Mica.* (University of Toronto Studies, Geological Series, 1938).

An Unusual Cancrinite. (University of Toronto Studies. Geological Series, 1938).

Parsons, A. L.—*Additional Semi-Precious and Ornamental Stones of Canada.* (University of Toronto Studies, Geological Series, 1938).

Wave Surfaces and Indices (Abstract). (American Mineralogist, Vol. 23, p. 176, 1938).

Peacock, M. A.—*The Morphology and Optics of Some New Salts of Cinchona Alkaloids.* (University of Toronto Studies, Geological Series, 1938).

The Normal Triclinic Setting: Correction. (American Mineralogist, vol. 22, pp. 987-989, 1937).

The relation of leightonite to polyhalite. (American Mineralogist, vol. 23, pp. 38-45, 1938).

Goldschmidtine, a new antimonide of silver (abstract). (American Mineralogist, vol. 23, pp. 176-177, 1938).

Peacock, M. A. and Bandy, M. C.—*Ungemachite and clino-ungemachite: new minerals from Chile.* (American Mineralogist, vol. 23, pp. 314-328, 1938).

Prince, A. T.—*A Study of Canadian Sphene.* (University of Toronto Studies, Geological Series, 1938).

Thomson. Ellis—*Some Ore Minerals of the Denison Mine.* (University of Toronto Studies. Geological Series. 1938).

Presidential Peregrinations to the Pacific (Abstract). (Proc. R.C.I.. Vol. 3, 1938).

DEPARTMENT OF PHYSICS

Burton, E. F.—*Refractive Indexes of Helium I and II.* (Nature, 140, 1937, p. 1015. December).

Book Review of "Low Temperature Physics" by M. and B. Ruhemann. (Journal of Applied Physics, 9, 4, 1938. p. 273, April).

Velocity of Sound in Liquid Helium. (Nature, Vol. 141. p. 970. 1938).

Haurwitz, B.—*The Norwegian Wave Theory of Cyclones.* (Bull. Amer. Meterolog. Soc., June-July, 1937, pp. 193-201).

Bemerkungen zur "Adjective-dynamischen Theorie der Luftdruckschwankungen und ihrer Periodizitäten." (Gerlands Beitr. z. Geophysik 51. 4. 1937. p. 422).

The Oscillations of the Atmosphere. (Gerlands Beitr. z. Geophysik 51, 1937, p. 195).

Haurwitz. B. and Noble. J. R. H.—*Maps of the Pressure Distribution in the Middle Troposphere applied to Polar Anticyclones.* (Bull. Amer. Met. Soc.. 1938).

Haurwitz. B. and Turnbull, W. E.—*Relations between Interdiurnal Pressure and Temperature Variations in Troposphere and Stratosphere over North America.* (Canadian Met. Mem. Vol. 1. No. 3. p. 67. 1938).

Hendrick, A. C. and Burton, E. F.—*A case of Hodgkin's Disease treated with Colloidal Elemental Arsenic.* (Canadian Medical Association Journal, 36, pp. 519-520, 1937).

Johns, Martin W.—*The Spectrum of Doubly Ionized Mercury, Hg. III.* (Canadian Journal of Research, 15 pp. 193-201. 1937).

Johns, H. E. and Wilheln, J. O.—*The Refractive Indices of Liquid Oxygen, Nitrogen, and Hydrogen.* (Canadian Journal of Research A. 15, pp. 101-108, 1937).

McKinley, D. W. R.—*Application of Quartz Crystals to the Modulation of Light.* (Canadian Journal of Research, A, 16, p. 77, 1938).

McTaggart, H. A.—*Some Measurements of the Ellipticity of Light Reflected from Thin Films of Oriented Molecules.* (Trans. Roy. Soc. Can., 3rd Ser., Sec. III, Vol. XXXI, p. 141, 1937).

Satterly, J.—*The Recent Development of Everyday Physics and its Application to Canadian Life.* (British Association, 1937).

Smith, H. G.—*Superconductivity.* (Science Digest, 1937, November).

Thomson, J. M.—*Magnetic Fields in Transformers at Low Frequencies.* (Philosophical Magazine, Ser. 7, Vol. XXV, p. 242, February, 1938).

University of Toronto Studies, Physics Series, 1936-1937. Nos. 81 to 93 inclusive. *Communications from the Low Temperature Division of the McLennan Laboratory.* (University Press).

Department of Political Science

Ashley, C. A.—*Some Aspects of Corporations.* (Essays in Political Economy in honour of E. J. Urwick). (Univiersity of Toronto Press).

Sir William Ashley and the Rise of Schools of Commerce. (Commerce Journal, 1938). (University of Toronto Commerce Club).

Biss, Miss I. M.—*Overhead Costs, Time Problems and Prices.* (Essays in Political Economy in Honour of Professor E. J. Urwick, ed. H. A. Innis, February, 1938).

Recent Power Legislation in Quebec. (Canadian Journal of Economics and Political Science, Vol. III, No. 4. November. 1937).

Water Powers. (Encyclopaedia of Canada, Vol. VI).

Economic Aspects of National Unity. (Commerce Journal, University of Toronto, March, 1938).

Bladen, V. W.—"*What is an Economic Wage*" *in Industrial Relations: Papers Presented at a Conference on Industrial Relations sponsored by Queen's University, the Montreal Personnel Association, and the Personnel Association of Toronto.* (Kingston. The Jackson Press, 1937).

"*Adam Smith on Value*" *in Essays in Political Economy in Honour of E. J. Urwick, ed. H. A. Innis.* (Toronto: The University of Toronto Press, 1938).

The Role of Trade Associations in the Determination of Prices. (Canadian Journal of Economics and Political Science, May, 1938, vol. 4, no. 2).

Coe, V. F.—*Essay on "Monetary Theory and Politics" in Essays in Political Economy in Honour of E. J. Urwick.* (University of Toronto Press, 1938).

Dated Stamp Scrip in Alberta. (Canadian Journal of Economics and Political Science, Vol. 4, No. 1, February, 1938).

Dawson, R. M.—*The Development of Dominion Status, 1900-1936.* (London, Oxford University Press, 1937, pp. xiv, 466).

Ferguson, W. S.—*Bills of Exchange.* (The Canadian Banker, January, 1938).

Commercial and Foreign Exchange Arithmetic. (The Canadian Banker, April 1938).

Uniformity in Company Law. (Commerce Journal, April, 1938).

Innis, H. A.—"*Introduction to studies on transportation Canadian-American Relations*" *in G. P. deT. Glazbrooks: A History of Transportation in Canada.* (Toronto, 1938, pp. VII-XXI).

The Passing of Political Economy. (Commerce Journal Annual Review, 1938).
Significant Factors in Canadian Economic Development. (Canadian Historical Review, December, 1938).
"Editor's introduction" Labor in Canadian American Relations. (Toronto, 1937).
"Foreword" to W. T. Easterbrook. (Farm Credit in Canada, Toronto, 1938).
The Economics of Conservation. (Geographical Review, January, 1938, pp. 137-139).
Recent Books on the Canadian Northland and the Arctic. (Canadian Historical Review, June, 1938).

Jackman, W. T.—*Our Canadian Railway Problem.* (Windsor Daily Star, January 20, 1938).
Railway Consolidation. (The Wharton Review, December, 1937).
Our Critical Railway Issue. (The Gazette, Montreal).
Disposing of Arguments Against Railway Unification. (Financial Times, Montreal, March 25, 1938).
Railway Coordination. (The Labour Review, February, 1938).
The Canadian Railway Problem. (The Commerce Journal, University of Toronto, 1938).

Plumptre, A. F. W.—*The Nature of Political and Economic Development in the British Dominions.* (The Canadian Journal of Economics and Political Science, Vol. 3, No. 4, November, 1937).
"The Arguments for Central Banking in the British Dominions" in Essays on Political Economy in Honour of E. J. Urwick. (University of Toronto Press, 1938).

DEPARTMENT OF PSYCHOLOGY

Bernhardt, K. D.—*Psychology in the Selling of Life Insurance.* (Canadian Insurance, Vol. 42, No. 30, July, 1937).
Review of P. M. Symonds' "Education and the Psychology of Thinking". (Journal of Educational Research, Vol. 31, p. 52, 1937).
The Psychology of Everyday Life. (Hardware and Metal, Vol. 50, pp. 40-41, March, 1938).

Bernhardt, K. S. and Herbert R.—*A Further Study of Vitamin B Deficiency and Learning with Rats.* (Journal of Comparative Psychology, Vol. 24, pp. 263-267, 1937).

Bernhardt, K. S. and Snygg, D.—*The Effect of Cues on the Choice of the Shorter Path.* (Journal of Comparative Psychology, Vol. 24, pp. 269-276, 1937).

Bernhardt, K. C. (co-author)—*An Analysis of the Social Contacts of Preschool Children with the aid of Motion Pictures.* (University of Toronto Studies, Child Development Series, No. 10, November, 1937).

Chant, S. N. F.—*Compensations which Affect Personality.* (Canadian Credit Institute, Bulletin 74, November, 1937).
Review of J. B. Rhine's Clairvoyance, Telepathy and Psychology: New Frontiers of the Mind. (University of Toronto Quarterly, January, 1938).

Chant, S. N. F. (co-author)—*Emotional Episodes in the Child of School Age.* (University of Toronto Studies, Child Development Series, No. 9, November, 1937).

Line, W. (co-author)—*The Influence of the Form of a Presentation upon Reproduction.* (Brit. Jour. of Psychol., Vol. XXVIII, Part 2, pp. 167-189, October, 1937).
Are Parents the Problem? (Understanding the Child, Vol. VI, No. 4, pp. 7-11, January, 1938).
The Study of Individual Differences as a Basis of Guidance. (Understanding the Child, Vol. VI, No. 3, pp. 14-18, October, 1937).
Psychology and the New Course of Studies. (The School, April, 1938).

Myers, C. R. (co-author)—*Report on Poliomyelitis in Ontario. 1937.* (Published by the Province of Ontario Department of Health, March, 1938).

Department of Semitics

Meek, T. J. (co-author)—*The Haverford Symposium on Archaeology and the Bible.* (American Schools of Oriental Research, 1938).

Magic Spades in Mesopotamia. (University of Toronto Quarterly, Vol. VII, 228 ff.).

Lapses of Old Testament Translators. (Journal of the American Oriental Society, Vol. LVIII, 122 ff.).

Oesterley's "Sacrifices in Ancient Israel". (Journal of Biblical Literature, Vol. LVII, 228 ff.).

Taylor, W. R.—*The Spirit of Hebrew Literature.* (Bulletin, Canadian Society of Biblical Studies, No. 3, 1937).

Aramaic Gospel-Sources and Form Criticism. (Expository Times, Vol. XLIX, No. 2, 1937).

Nestorian Crosses in China. (American Journal of Semitic Languages, Vol. LV, No. 1, 1938).

FACULTY OF MEDICINE

Department of Anatomy

Grant, J. C. B.—*A Text-book of Anatomy entitled, A Method of Anatomy, Descriptive and Deductive.* (Messrs. William Wood & Company, Baltimore, 1937).

Ham, A. W., Tisdall, F. F. and Drake, T. G. H.—*Experimental non-calcification of callus simulating non-union.* (Journal of Bone and Joint Surgery, Vol. 20, April, 1938).

Ham, A. W. and Elliott, H. C.—*The bone and cartilage lesions of protracted moderate scurvy.* (American Journal of Pathology, Vol. 14, May, 1938).

Banting-Best Department of Medical Research

Banting, F. G. and Hall, G. E.—*Myocardial Disease.* (Trans. Assoc. Am. Physicians, 52, p. 204, 1937).

Beveridge, J. and Lucas, C. C.—*Preliminary Report on a Chemical Investigation of Human Hair.* (Can. Physiol. Soc., May, 1938).

Collins, H. L.—*The Effect of Aluminum and pH on the Solubility of Siliceous Dusts.* (Royal Soc. of Canada, May, 1938).

Creech, H. J. and Franks, W. R.—*Anthranyl and 1, 2, 5, 6-Dibenzanthranyl Isocyanates.* I. (Amer. Chem. Soc. J., 60, p. 127, 1938).

The Synthesis of Aromatic Isocyanates. (Royal Soc. of Canada, May, 1938).

Franks, W. R. and Creech, H. J.—*Synthetic Antigens and Carcinogenesis.* (Abstract). (Can. Chem. and Process Ind., Vol. XXII, No. 4, April, 1938).

Chemoantigens and Carcinogenesis. I. (Am. J. of Cancer).

Franks, W. R., Byrnes, A. E. and Proctor, L. D.—*Glyoxalase in B¹ Deficient Rats.* (Can. Physiol. Soc., May, 1938).

Goodwin, J. E.—*Bio-electric Action Potentials.* (Can. Chem. and Process Industries, 22, May, 1938).

A Four-Channel Amplifying System for Simultaneous Recording. (Can. Physiol. Soc., May, 1938).

Hall, G. E.—*Experimental Heart Disease.* (Given before American College of Physicians, New York, April 5, 1938).

Electrocardiographic Changes Associated with Experimental Imbalance of the Autonomic Nervous System. (Am. J. Physiol. (Proceed.), p. 87, 1938).

Hall, G. E. and Franks, W. R.—*Acetylcholine and Endogenous Carcinogenesis.* (Am. Assoc. for Cancer Research (Proceed.), May, 1938).

Physiological Carcinogenesis. (J. Biol. Chem. (Proceed.), p. 44, 1938).

Hall, G. E. and Cleghorn, R. A.—*Organic Lesions Produced as a Result of Parasympathetic Imbalance.* (Can. Physiol. Soc.). (Can. Med. Assoc. J., 37, p. 287, (4), 1937).

Hall, G. E. and Banting, F. G.—*Physiological Studies in Experimental Insulin and Metrazol Shock.* (Given before American Psychiatric Assoc., San Francisco, June, 1938).

Hearne-Creech, Miss E. M.—*Further Studies of the Action of 1, 2, 5, 6-Dibenzanthracene and Phenanthrene Choleic Acid Compounds in Tissue Culture.* (Can. Physiol. Soc., May, 1938).

Jephcott, C. M., Gray, W. M. and Irwin, D. A.—*A Study of the Crystalline Siliceous Minerals Present in Silicotic Lungs by the X-ray Diffraction Method.* (Can. Med. Assoc. J., 38, pp. 209-215, 1938).

Leibel, B. S. and Hall, G. E.—*Influence of Metrazol and Insulin Shock Treatment (as used in Schizophrenia) on Blood Flow.* (Can. Physiol. Soc., May, 1938).

Lloyd, D. P. C.—*Action Potential Studies on Inferior Mesenteric Ganglia.* (Can. Physiol. Soc.). (C.M.A.J., 37, p. 287, (6), 1937).

The Transmission of Impulses through the Inferior Mesenteric Ganglia. (J. Phylsiol. 91, p. 296, 1937).

Slow Potential Waves set up in the Inferior Mesenteric Ganglia by Preganglionic and Antidromic Volleys. (Can. Physiol. Soc., May, 1938).

The Excitability of Inferior Mesenteric Ganglion Cells following a Preganglionic Volley. (Am. J. Physiol. (Proceed.), p. 129, 1938).

The Transmission of Impulses by Ganglionic Direct Fibres. (J. Physiology).

Lougheed, D. W. and Hall, G. E.—*The Fate of Intravenously Injected* O^2 *and* CO^2. (Can. Physiol. Soc., May, 1938).

Intravenous Injections of Oxygen and Carbon Dioxide. (Can. Chem. and Process Industries, 22, May, 1938).

Lucas, C. C.—*Human Response to Single Doses of Sulphanilamide.* (Can. Med. Assoc. J.).

A Biochemical Investigation of the Therapeutic Use of Sulphanilamide. (Can. Physiol. Soc., May, 1938).

Manning, G. W., Hall, G. E. and Banting, F. G.—*Vagus Stimulation and the Production of Myocardial Damage.* (Can. Med. Assoc. J., 37, pp. 314-318, 1937).

Manning, G. W., Lang, J. and Hall, G. E.—*The In Vivo Effects of Eserine on the Choline-Esterase System.* (J. Pharm. and Exp. Therap., Vol. 61, December, 1937).

Mendel, B.—*The Action of Ferricyanide on Tumour Cells.* (Am. J. Cancer, Vol. XXX, July, 1937).

Mendel, B., Strelitz, F. and Mundell, D.—*d-Glyceric Aldehyde and Tumour Glycolysis.* (Nature, Vol. 141, p. 288, February, 1938).

Outhouse, E. L.—*Further Studies of Amino-Ethyl Phosphoric Ester—A Compound Apparently Specific to Malignant Tumours.* (Biochem. J., Vol. XXXI, pp. 1459-1463, 1937).

Rae, J. J.—*The Organic Phosphates of Urine.* (Biochem. J., Vol. XXXI, pp. 1622-1626, 1937).

Sniffen, R. C.—*The Modification of Quartz Fibrosis by Silicates.* (Royal Soc. of Canada, May, 1938).

Williams, H. and Irwin, D. A.—*An Experimental Study of the Leaching of Silicates in Tissue.* (Can. Med. Assoc. J.).

DEPARTMENT OF BIOCHEMISTRY

Butler, G. C. and Marrian, G. F.—*Chemical Studies on the Adreno-genital Syndrome. The isolation of 3(a)-Hydroxyetiocholane-17-one, 3(B)-Hydroxyeticallocholane-17-one (isandrosterone), and a new triol from the urine of a woman with an adrenal tumor.* (J. Biol. Chem.).

Marrian, G. F.—*The Chemistry of the Oestrogenic Hormones.* (Ergebnisse der Vitamin- und Hormonforschung, 1937).

The Conjugated Estrogens. (Symposium on Quantitative Biology, Cold Spring Harbor, Vol. 5, 1937, pp. 16-24).

Marrian, G. F. and Butler, G. C.—*The Hormones.* (Annual Review of Biochemistry, Vol. VI, 1937, pp. 303-334).

Pett, L. B. and Wynne, A. M.—*Studies on Bacterial Phosphatases. The Phosphatases of Aerobacter aerogenes, Alcaligenes faecalis and Bacillus subtilis.* (Biochem. J., Vol. XXXII, No. 3, pp. 563-566, 1938).

DEPARTMENT OF MEDICINE

Armour, R. G.—*Medico-legal evidence.* (University of Toronto Med. Jour., 1937, XV, 67).

Bates, G.—*The venereal disease problem in Canada.* (Canad. Pub. Health Jour., 1937, XXVIII, 485).

Campbell, W. R.—*Some aspects of the Management of the diabetic patient.* (Canad. Pub. Health Jour., 1937, XXVIII, 318).

The uses of protamine zinc insulin. (New York State Jour. Med., 1937, XXXVII, No. 21, 1795).

Campbell, W. R. and Hanna, M. I.—*The determination of nitrogen by modified Kjeldahl methods.* (Jour. Biol. Chem., 1937, CXIX, 1).

Sulfites as protein precipitants. (Ibid., p. 9).

The albumin, globulins, and fibrinogen of serum and plasma. (Ibid., p. 15).

Cleaver, E. E. and Maltby, E. J.—*Results in the medical treatment of gastric ulcer.* (Canad. Med. Assn. Jour., 1938, XXXVIII, 243).

Cleghorn, R. A. (with McHenry, E. W., McVicar, G. A. and Overend W.)—*Experimental and clinical studies on adrenal insufficiency.* (Canad. Med. Assn. Jour., 1937, XXXVII, 48).

Cleghorn, R. A. and Hyland, H. H. (with Mills, J. R. F. and Linell, E. A.)—*Hypogonadism Associated with invasion of the mid-brain and hypothalamus by a pineal tumour.* (Quart. Jour. Med., 1938, VII, 183).

Elliott, J. H.—*Evolution of dispensary control of tuberculosis; historical aspects.* (Amer. Rev. Tubercul., 1937, XXXVI, 577).

Farquharson, R. F.—*Anaemia in pregnancy.* (Bull. Acad. Med., Toronto, 1937, X, 255).

Graham, Duncan—*Disease of the blood vessels (Part 2).* (Oxford Medicine, Vol. II).

Graham, J. W.—*The toxicity of sterile filtrate from paradontal pockets.* (Proc. Royal Soc. Med., 1937, XXX, 1165).

Hannah, B.—*Symptomatology of anterior poliomyelitis.* (Canad. Pub. Health Jour., 1937, XXVIII, 427).

Hepburn, J.—*Cardiac disease associated with pregnancy.* (Bull. Acad. Med., Toronto, 1937, XI, 7).

Hepburn, J. and Rykert, H. E.—*The use of quinidine sulfate intravenously in ventricular tachycardia.* (Amer. Heart Jour., 1937, XIV, 620).

Hyland, H. H. (with Botterell, E. H.)—*Frontal lobe tumours: a clinical and physiological study.* (Canad. Med. Assn. Jour., 1937, XXXVII, 530).

Lougheed, G. W. (with Campbell, D. M. and Gwyn, N. B.)—*Massive latent carcinoma of the stomach.* (Canad. Med. Assn. Jour., 1937, XXXVI, 179).

Oille, J.—*Differential diagnosis of pain in the chest.* (Canad. Med. Assn. Jour., 1937, XXXVII, 209).

Owen, Trevor—*Psychological medicine and the psychoneuroses.* (Univ. of Toronto Med. Jour., 1938, XV, 231).

Rykert, H. E. and Graham, Duncan—*Some problems in the diagnosis, prognosis and treatment of acute arterial occlusion.* (Amer. Heart Jour., 1938, XV, 395).

Rykert, H. E.—*Some comments respecting digitalis therapy.* (Univ. of Toronto Med. Jour., 1938, XV, 177).

Trow, E. J.—*Oriental sore; report of a case.* (Arch. Dermat. and Syphilol., 1937, XXXV, 455).

Warner, W. P.—*Lung abcess.* (Canad. Med. Assn. Jour., 1938, XXXVIII, 544).

Department of Ophthalmology

Macdonald, A. E.—*Retinal Circulation and changes in Metabolic Disease.* (Transactions of the Ophthalmological Society of the United Kingdom).

Etiology of Idiopathic Retinal Detachment. (Transactions of the American Ophthalmological Society).

Staphylococcus Toxoid in Recurrent Styes. (Canadian Medical Journal).

Department of Oto-Laryngology

Ireland, P. E.—*Two Common Complications for Ear Infection.* (The Canadian Medical Journal, 37, pp. 256-260, 1937.

McGregor, Gregor—*The Comparative Anatomy of the Tongue.* (The Annals of Otology, Rhinology, and Laryngology, March, 1938)

Strachan, Grant—*Chronic Sinus Diseases in Children.* (The Bulletin of the Academy of Medicine).

Sullivan, Joseph—*Newer Aspects of Bells Palsy—A Preliminary Report.* (Presented before the Oto-Laryngological Section of the Academy of Medicine, November, 1937).

Veitch, A. H.—*Differential Diagnosis of Upper Dysphagia.* (Presented before the Joint Canadian and Ontario Medical Association Meeting, Ottawa, June, 1937).

The Treatment of Chronic Sinusitis. (Presented at The Oto-Laryngological Section of the Academy of Medicine, March, 1938).

Wishart, D. E. S.—*The Problem of the Deaf Child.* (Canadian Medical Association Journal, March, 1938).

Some Observations on Petrous Tip Suppuration with Report of Three Cases. (Presented at the Canadian Medical Association Meeting, June, 1937).

Colds and How to Avoid Them. (Health, Spring Number, 1938).

Chapter on "Vertigo". (The Practitioners' Library of Medicine and Surgery, Vol. 11, 1937). (D. Appleton-Century Company, New York, N.Y.).

Department of Paediatrics

Brown, Alan—*Appendiceal Colic.* (Can. Med. Assoc. Jour., Vol. 38, p. 445, 1938).

Bernhardt, K. S. and Herbert, Miss R.—*A further study of Vitamin B deficiency and learning with rats.* (Jour. Comp. Psych., Vol. 24, p. 263, October, 1937).

Drake, T. G. H.—*The Child in Antiquity.* (Health, Vol. 6, No. 1, 1938).

Infant Nutrition in Paris in the year 1780. (Can. Med. Assoc. Jour., Vol. 37, p. 595, 1937).

Ham, A. W., Tisdall, F. F. and Drake, T. G. H.—*Experimental non-calcification of callus simulating non-union.* (Jour. Bone & Joint Surgery, Vol. XX, p. 345, April, 1938).

Hawke, W. A.—*Elevated Temperatures in Childhood due to Exercise.* (Jour. Ped., Vol. 11, p. 64, July, 1937).

Jackson, S. H.—*Determination of Iron in Biological Material.* (Industrial and Engineering Chemistry Analytical Edition).

Morgan, E. A.—*The value of Mapharsen in the Treatment of congenital syhphilis.* (Can. Med. Assoc. Jour., Vol. 38, p. 53, 1938).

Robertson, Mrs. E. C.—*Dietary Calcium and pH of the lower intestine.* (Proc. Soc. Exper. Biol. & Med., Vol. 37, p. 140, 1937).

Calcium Deficiency and Intestinal Stasis. (Jour. Nutrition, Vol. 15, January 10, 1938, p. 67).

Low Mineral Diets and Intestinal Stasis. (Pathology Series, University of Toronto Studies, 1938).

Robertson, Mrs. E. C. and Doyle, Miss M. E.—*Difficulties in the use of brachycardia method of assaying Vitamin* B^1. (Proc. Soc. Exper. Biol. & Med., Vol. 37, p. 139, 1937).

Ross, J. R.—*Prolactin—Its effects on the secretion of Woman's milk.* (Endocrinology 22, p. 429, April, 1938).

Silverthorne, N.—*Whooping Cough.* (Can. Med. Assoc. Jour., 38, p. 556, 1938).

Experimental Inflection with H. pertussis and protection tests in mice. (Can. Pub. Health Jour., p. 233, May, 1938).

Silverthorne, N. and Brown, Alan—*Treatment of Meningitis due to Hemolytic Streptococcus with Sulphanilamide.* (Jour. Ped., Vol. 12, p. 504, April, 1938).

Summerfeldt, Miss P. and Brown, Alan—*Mandelic Acid in the Treatment of Pyuria.* (Can. Med. Assoc. Jour., Vol. 38, p. 352, 1938).

Osteodystrophia Fibrosa. (Jour. Ped.).

Tisdall, F. F.—*Nutrition.* (Health, Vol. 6, No. 1, 1938).

Tisdall, F. F., Brown, Alan, Defries, R. D., Ross, M. A. and Sellers, A. H.—*Zinc Sulphate Nasal Spray in the Prophylaxis of Poliomyelitis.* (Can. Pub. Health Jour., p. 523, November, 1937).

Tisdall, F. F., Drake, T. G. H., Summerfeldt, Miss P. and Jackson, S. H.—*The comparative value of spinach and tomatoes in the child's diet.* (Jour. Ped., Vol. 11, p. 374, September, 1937).

DEPARTMENT OF PATHOLOGICAL CHEMISTRY

Hunter, A.—*The specificity of arginase with special reference to its action on carbamidoarginine.* (Canadian Chemistry, Vol. 21, p. 410, 1937).

The enzymatic preparation of arginine and ornithine. (Canadian Chemistry, Vol. 22, p. 190, 1938).

The action of arginase upon carbamidoarginine. (Biochemical Journal, Vol. 32, p. 826, 1938).

Nicholson, T. F., Urquhart, R. W. I. and Selby, D. L.—*Further Observations of kidney function in experimental nephrosis.* (Canadian Chemistry, Vol. 22, p. 190, 1938).

DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

Boyd, W.—*On the Danger of Scrappiness.* (University of Toronto Med. J., Vol. 15, pp. 104-105, 1937).

Text-Book of Pathology. (Lea & Febiger, Philadelphia, 3rd. Ed., 1938).

Campbell, H. H.—*Studies on Sulphanilamide in Experimental Tuberculosis.* (For the degree of B.Sc. (Med.)).

Duff, G. L.—*The Production of Hyaline Arteriolosclerosis and Arteriolonecrosis by Means of Proteolytic Enzymes.* (Bull. Johns Hopkins Hosp., Vol. 61, pp. 63-70, 1937).

Greey, P. H.—*Laboratory Procedures used in the Diagnosis of Syphilis.* (University of Toronto Med. J., Vol. 15, pp. 136-139, 1938).

Hair, H. C.—*Study on Pulmonary Infarction.* (For the degree of B.Sc. (Med.)).

Holman, W. L.—*Sulphanilamide and Similar Compounds in Chemotherapy.* (Am. J. Med. Sc., Vol. 195, pp. 379-416, 1938).

Common Sense and Clear Thinking among Early Investigators. (University of Toronto Med. J., Vol. 15, pp. 293-298, 1938).

Linell, E. A., Mills, J. F. R. and members of the Department of Medicine—*Hypogonadism Associated with Invasion of the Mid-brain and Hypothalamus by a Pineal Tumour.* (Quart. J. Med., Vol. 7, pp. 183-210, 1938).

McKenzie, K. G.—*Cranio-cerebral Injuries.* (Parts 1 and 2). (University of Toronto Med. J., Vol. 15, pp. 126-132; 281-292, 1938).

MacLeod, D. R. E.—*A Study of Bacterial Haemolysins.* (For the degree of B.Sc. (Med.)).

Magner, D. E. O.—*The Effect of Protein Derivatives on the Vascular Systems of Various Animal Species.* (For the degree of B.Sc. (Med.)).

Magner, W.—*A Textbook of Haematology.* (P. Blakiston's Son & Co., Philadelphia, 1938).

Patterson, J. C.—*Capillary Rupture with Intimal Haemorrhage as a Causative Factor in Coronary Thrombosis.* (Arch. Path., Vol. 25, pp. 474-487, 1938).

Plewes, B.—*Spinal Cord Injury without Evidence of Fracture or Dislocation of the Vertebral Column.* (Canadian Medical Association Journal, Vol. 38, pp. 475-477).

Rae, Miss M. V. (from the Pathology Laboratory of the Hospital for Sick Children) —*Coronary Aneurysms with Thrombosis in Rheumatic Carditis.* (Arch. Path., Vol. 24, pp. 369-376, 1937).

Richardson, J. C.—*Spontaneous Haematomyelia: A Short Review and a Report of Cases Illustrating Intramedullary Angioma and Syphilis of the Spinal Cord as Possible Causes.* (Brain, Vol. 61, pp. 17-36, 1938).

Intracranial Aneurysms. (University of Toronto Med. J., Vol. 15, pp. 304-310, 1938).

Robertson, E. C.—*Low Mineral Diets and Intestinal Stasis.* (University of Toronto Studies, Pathological Series, No. 9, 1938).

Solandt, O. M.—*Massive Collapse of Lung.* (Amer. J. Med. Sc., Vol. 194, pp. 428-443, 1937).

DEPARTMENT OF PHARMACOLOGY

V. E. Henderson and M. H. Roepke—*Drugs Affecting Parasympathetic Nerves.* (Physiol. Reviews. 17. 373. 1937).

V. E. Henderson and S. F. MacDonald—*Anaesthesia with Cyclopropane Derivatives.* (J. Pharm. Exp. Thera. 61. 182. 1937).

G. H. W. Lucas—*The Administration of Bismuth.* (Can. Med. Assoc. J. 38. 553. 1938).

DEPARTMENT OF PHYSIOLOGY

Best, C. H.—*Heparin and thrombosis.* (Can. Med. Ass. J., 1938, 38, p. 59).

The prolongation of insulin action. (Ohio J. Scie., 1937, 37, p. 362).

Best, C. H. and Taylor, N. B.—*The living body. A junior text in human physiology.* (Henry Holt, N.Y., 1938).

Best, C. H. and Solandt, D. Y.—*The production of coronary thrombosis in experimental animals.* (Trans. Roy. Soc. Can., 1938, 32, Sec. V.).

Bronk, D. W., Tower, S. S., Solandt, D. Y. and Larabee, M. C.—*The transmission of impulses through a sympathetic ganglion and in the post-ganglionic nerves.* (Am. J. Physiol., 1938, 122, 1).

Fletcher, J. P. and Waters, E. T.—*A study of the free sugar concentration of the livers of rats absorbing glucose and fructose and its relationship to glycogen synthesis.* (Biochem. J., 1937, 31, 1830).

Effect of fructose on the glucose tolerance curve. (Biochem. J., 1938, 32, 212).

Hyland, H. H. and Botterell, E. H.—*Frontal lobe tumours: a clinical and physiological study.* (Can. Med. Ass. J., 1937, 37, 530).

Jaques, L. B. and Best, C. H.—*Protamine and the anticoagulant action of heparin.* (Can. Chem. Process Indust., 1938, 22, 84).

Murray, D. W. G. and Best, C. H.—*Heparin and thrombosis; the present situation.* (J. Am. Med. Ass., 1938, 110, 118).

Murray, D. W. G., Jaques, L. B., Perrett, T. S. and Best, C. H.—*Heparin and the thrombosis of veins following injury.* (Surgery, 1937, 2, 163).

Smith, C. G. and Solandt, D. Y.—*The relation of contracture to the increment in the resting heat production of muscle under the influence of potassium.* (J. Physiol.).

Solandt, D. Y.—*Measurement of the time constant of accommodation in human nerve.* (Am. J. Physiol.)

Solandt. D. Y. and Robinson. F. L.—*A pump for the prolonged cross-circulation of animals.* (J. Scie. Instruments, 1938, 15).

Taylor, N. B. and Haist, R. E.—*The action of parathormone in nephrectomised animals.* (Trans. Roy. Soc. Can., 1938, 32, Sec. V).

Walker. A. E. and Botterell, E. H.—*The syndrome of the superior cerebellar peduncle in the monkey.* (Brain, 1937, 60, 329).

Waters, E. T., Fletcher. J. P. and Mirsky. I. A.—*The relation between carbohydrate and B-hydroxybutyric acid utilization by the heart-lung preparation.* (Am. J. Physiol.. 1938, 122, 542).

Waters, E. T., Markowitz, J. and Jaques. L. B.—*Anaphylaxis in the liverless dog, and observations on the anticoagulant of anaphylactic shock.* (Science. 1938, 87, 582).

Department of Surgery

Botterell. E. H. (with Walker, A. E.)—*The Syndrome of the Superior Cerebellar Peduncle in the Monkey.* (Brain, vol. IX, part 3, September, 1937).

Botterell, E. H. (with Hyland, H. H.)—*Frontal Lobe Tumours: A Clinical and Physiological Study.* (C.M.A.J. 37, 530-540, 1937).

Couch, J. H.—*First Aid Treatment of Fractures.* (U. of T. Med. Journal, March, 1938).

Foulds, G. S.—*Carcinoma of the Penis.* (Brit. Jour. of Urology, Dec.. 1937).

Gaby, R. E.—*Lightening, Practitioner's Library.* (D. Appleton & Co., 1938).

Gallie. W. E.—*Skeletal Traction in the Treatment of Fractures and Dislocations of the Cervical Spine.* (Annals of Surg.. Oct., 1937).

The Principles of the Treatment of Cancer. (U. of T. Med. Journal, April, 1938).

Gordon. S. D.—*Repair of Secondary Traumatic Defects in Lip Mucous Membrane.* (C.M.A.J.. vol. 38, 1938).

Graham. R. R.—*The Treatment of Duodenal Ulcer.* (Surgery, Gynaecology & Obstetrics, Feb., 1938).

The Surgeon's Problem in Duodenal Ulcer. (Amer. Jour. of Surg., Apr., 1938).

Technical Surgical Procedures in Gastric and Duodenal Disease. (Surgery, Gynoaecology & Obstetrics).

Harris, R. I.—*The Importance of Early and Accurate Diagnosis in Osteogenic Sarcoma.* (Surgery, Gynaecology & Obstetrics, vol. 64, June, 1937).

Experiences with Internal Fixation in Fresh Fractures of the Neck of the Femur. (Jour. Bone & Joint Surg., Jan., 1938).

Janes, R. M.—*Indications for Pulmonary Lobectomy.* (C.M.A.J.. vol. 38, pp. 538-544, 1938).

LeMesurier. A. B.—*The Operative Treatment of Cleft Palate.* (Amer. Jour. of Surg., Feb., 1938).

MacFarlane. J. A. and Thomas, R. H.—*Fixed Skeletal Traction in the Treatment of Certain Fractures of the Wrist.* (C.M.A.J.. vol. 36, pp. 10-12. 1937).

McKenzie. K. G.—*Cranio-cerebral Injuries.* (U. of T. Med. Jour.. Jan. and Apr.. 1938).

Wookey. H. W.—*Surgical Aspects of Oral Cancer.* (C.M.A.J.. vol. 36. No. 2, pp. 148-152. Feb.. 1937).

Robertson. D. E.—*Acute Haematogenous Osteomyelitis.* (Jour. Bone and Joint Surg., vol. 20, no. 1, Jan., 1938).

Fractures and Dislocations Involving the Elbow Joint in Children. (Amer. Jour. of Surg., vol. 39. No. 2. Feb.. 1938).

Medico-Legal Evidence. (Canadian Bar Review. Mar.. 1938).

School of Hygiene and Connaught Laboratories

Allin, A. E., Fraser, D. T. and Hannah, B.—*Development of sensitivity to the proteins of C. diphtheriae.* (Canad. Pub. Health J., 28, pp. 376-377, 1937).

Barrett, H. M.—*Atmospheric pollution in Toronto.* (Canad. Pub. Health J., 29, pp. 1-12, 1938).

Barrett, H. M., MacLean, D. L. and Cunningham, J. G.—*A Comparison of the toxicity of carbon tetrachloride and trichlorethylene.* (J. Ind. Hyg. & Tox., 20, pp. 360-379, 1938).

Benjamin, B., Fleming, G. and Ross, M. A.—*Results of Schick test in 5,195 children given injections of diphtheria toxoid.* (Am. J. Dis. Child., 55, pp. 51-62, 1938).

Best, C. H. and Campbell, J.—*The effect of anterior pituitary extracts on the liver fat of various animals.* (J. Physiol., 92, pp. 91-110, 1938).

Best, C. H., Cowan, C. and MacLean, D. L.—*Heparin and the formation of white thrombi.* (J. Physiol., 92, pp. 20-31, 1938).

Best, C. H. and Ridout, J. H.—*The pancreas and deposition of fat in the liver.* (Am. J. Physiol., 122, pp. 67-72, 1938).

Caulfeild, A. H. W.—*The correlation of specific sensitization. as it occurs clinically in man, and as induced experimentally in animals.* (Trans. Am. Clin. & Clim. Assoc., 52, pp. 234-240, 1937).

Prevention of poison ivy dermatitis by the intramuscular injection of 'Rholigen (Rhus tox. oleoantigen). (Canad. Med. Assoc. J., 37, pp. 18-23, 1937).

Cleghorn, R. A., McHenry, E. W., McVicar, G. A. and Overend, D. W.—*Experimental and clinical studies on adrenal insufficiency.* (Canad. Med. Assoc. J., 37, pp. 48-51, 1937).

Cowan, C. R. and Solandt, O. M.—*The duration of the recovery period following strenuous exercise, measured to a base line of steady, mild exercise.* (J. Physiol., 89, pp. 462-466, 1937).

Craigie, J.—*Poliomyelitis: Virus and experimental infection.* (Canad. Pub. Health J., 28, pp. 421-423, 1937).

Handbuch der Virusforschung. vi. Abschnitt. Natürliche Empfänglichkeit und erworbene Immunität. 2. Die Antigenfunktionen und die serologischen reaktionen der Virusarten in vitro. (Ed. Doerr and Hallauer).

Defries, R. D.—*Some epidemiological features of poliomyelitis.* (Canad. Pub. Health J., 28, pp. 424-426, 1937).

Recent health legislation in Canada. (Canad. Pub. Health J., 29, pp. 180-187, 1938).

Survey of certain milk-borne diseases in Canada. (Canad. Pub. Health J., 29, pp. 255-261, 1938).

Dolman. C. E. and Hudson, V. G.—*Brucellosis in and around Vancouver.* (Canad. Pub. Health J., 29, pp. 236-246, 1938).

Farrell, L. N. and Kitching, J. S.—*Staphylococcic alum toxoid.* (J. Immunol., 34, pp. 51-60, 1938).

Fisher, A. M. and Scott, D. A.—*Spermine, zinc and insulin.* (J. Pharm. & Exper. Therap., 61, pp. 21-29, 1937).

FitzGerald, J. G.—*Undergraduate instruction in preventive medicine.* (J.A.M.A., 110. pp. 1321-1326, 1938).

FitzGerald, J. G., Fraser, D. T., McKinnon, N. and Ross, M. A.—*Diphtheria, a preventable disease.* (Lancet, 234, pp. 391-396, 1938).

Fraser, D. T. and Halpern, K. C.—*The antitoxic response to diphtheria antigens in children.* (J. Immunol., 33, pp. 323-335, 1937).

Gibbons, R. J.—*The cultural method for detecting residual gonococcal infection.* (Canad. Pub. Health J., 28, pp. 450-455, 1937).

Hannah, B.—*Symptomatology of poliomyelitis.* (Canad. Pub. Health J., 28, pp. 427-429, 1937).

Hare, R.—*The development of immunity in the human body.* (Univ. Toronto Med. J., 15, pp. 16-19, 1937).

Puerperal sepsis and its prevention. (Canad. Pub. Health J., 28, pp. 554-563; 596-603. 1937).

Hare, R. and Yen, C. H.—*Isolation of influenza virus.* (Canad. Pub. Health J., 29, pp. 27-31, 1938).

Heard. R. D. H.—*A new ketone from the urine of pregnant mares.* (J. Am. Chem. Soc., 60, p. 493, 1938).

Kitching, J. S. and Farrell, L. N.—*The stability and antigenicity of staphylococcic toxoid.* (J. Immunol., 34, pp. 1-9, 1938).

McHenry, E. W.—*Vitamin* B^1 *and the synthesis of fat from carbohydrate.* (Science, 86, p. 200, 1937).

Some causes of malnutrition. (Canad. Pub. Health J., 28, pp. 544-547, 1937).

An effect of choline on the vitamin B^1 *sparing action of fats.* (Biochem. J., 31, pp. 1616-1621, 1937).

The measurement of nutritional status. (Univ. Tor. Med. J., 15, pp. 180-183, 1938).

The B vitamins. (Canad. Chem. & Process Indust., 22, pp. 45-46. 1938).

Nutrition in a school curriculum. (Can. School J., 16, p. 40, 1938).

The nutritional value of raw and pasteurized milk. (Canad. Pub. Health J., 29, pp. 295-297, 1938).

McHenry, E. W. and Best, C. H.—*The biological test for pregnancy.* (Canad. Med. Assoc. J., 37, pp. 151-152, 1937).

McKinnon, N. E.—*Symposium on anterior poliomyelitis. Convalescent seru therapy.* (Canad. Pub. Health J., 28, pp. 434-436, 1937).

MacLean, D. L. and Partridge, R.—*Air currents and drafts as factors in air conditioning.* (J. Ind. Hyg. & Toxicol., 19, pp. 562-570, 1937).

MacLean, D. L., Ridout, J. H. and Best, C. H.—*The effects of diets low in choline upon liver function, growth and distribution of fat in the white rat.* (Brit. J. Exper. Path., 18, pp. 345-354, 1937).

Murray, D. W. G., Jaques, L. B., Perrett. T. S. and Best. C. H.—*Heparin and the thrombosis of veins following injury.* (Surgery, 2, pp. 163-186, 1937).

Reedman, E. J.—*The ascorbic acid content of milk.* (Canad. Pub. Health J., 28, pp. 339-340, 1937).

Reedman, E. J. and McHenry, E. W.—*Combined ascorbic acid in plant tissues.* (Biochem. J., 32, pp. 85-93. 1938).

Scott, D. A. and Fisher, A. M.—*Studies on pancreas and liver of normal and zinc-fed cats.* (Am. J. Physiol., 121, pp. 253-260, 1938).

Sellers. A. H.—*The physician's statement of cause of death.* (Am. J. Pub. Health. 28, pp. 430-444, 1938).

Silverthorne, N.—*The bactericidal power of blood and protection against meningococcal infection.* (J. Immunol. 33. pp. 51-56, 1937).

Symposium on anterior poliomyelitis. Difficulties in prognosis. (Canad. Pub. Health J., 28, pp. 430-431. 1937).

Experimental infection with H. pertussis and protection tests in mice. (Canad-Pub. Health J., 29, pp. 233-234, 1938).

Silverthorne. N. and Brown. A.—*The treatment of meningitis due to hemolytic streptococcus with sulfanilamide.* (J. Ped., 12, pp. 504-506. 1938).

Silverthorne. N., Fraser. D. T. and Hendren. G.—*Whooping cough.* (Canad. Med. Assoc. J., 38. pp. 556-559. 1938).

Smith. M. D.—*Kay and Graham's phosphatase test applied to Ontario milk.* (Canad. Pub. Health J., 28. pp. 383-387. 1937).

The use of the phosphatase test in the control of pasteurization. (Canad. Pub. Health J., 29. pp. 288-294. 1938).

Taylor, E. M. and Moloney, P. J.—*An investigation of the League of Nations standard requirements for Schick toxin.* (J. Immunol., 33, pp. 191-202, 1937).

Tisdall, F. F., Brown, A., Defries, R. D., Ross, M. A. and Sellers, A. H.—*Zinc-sulphate nasal spray in the prophylaxis of poliomyelitis.* (Canad. Pub. Health J., 28, pp. 523-543, 1937).

Watson, M. C. and McHenry, E. W.—*Tissue loss from the endometrium during menstruation.* (Am. J. Obst. & Gynec., 35, pp. 316-320, 1938).

FACULTY OF APPLIED SCIENCE

DEPARTMENT OF ARCHITECTURE

Arthur, E. R.—*St. Andrew's Church, Niagara-on-the-Lake.*

DEPARTMENT OF CHEMICAL ENGINEERING

Breckenridge, J. G. and Smith, O. C.—*Induced Asymmetry and Optical Resolution of 2-Phenylpyridine Derivatives.* (Canadian Journal of Research, April, 1938).

Jansen, G. V. and Bain, J. W.—*An Investigation of the Chlorination of Spruce Wood and of the Resulting Chlorolignin.* (Canadian Journal of Research, July, 1937).

DEPARTMENT OF CIVIL ENGINEERING

Laidlaw, R. E. and Young, C. R.—*Engineering Law.* (University of Toronto Press, 1937).

Loudon, T. R.—*Aeronautic Training.* (University of Toronto Monthly).

Preliminary results of Photo Elastic Investigation of the Effects of Cut-Outs in Monocoque Construction Fuselages. (Aeronautic Section, American Society for the Advancement of Science).

DEPARTMENT OF ELECTRICAL ENGINEERING

Price, H. W. and Duff, C. K.—*An Automatic Frequency Regulator.* (Electrical News and Engineering, July 15, 1938).

An Automatic Frequency Regulator for Laboratory Service. (Bulletin No. 154, School of Engineering Research).

DEPARTMENT OF ENGINEERING DRAWING

Smither, W. J.—*A Statical Determination of the Reactions at the Points of Contraflexure in the Columns of a Steel Mill Building Bent Due to an External Wind Load.* (The Engineering Journal, E.I.C., February, 1938).

DEPARTMENT OF MECHANICAL ENGINEERING

Allcut, E. A.—*Principles of Industrial Management.* (Sir Isaac Pitman & Sons, Second Edition, 1938).

Angus, R. W.—*Air Chambers and Valves in Relation to Water Hammer.* (Transactions of the American Society of Mechanical Engineering, Vol. 59, No. 8, November, 1937, p. 661).

Water Hammer Pressures in Compound and Branched Pipes. (Proceedings American Society of Civil Engineers, Vol. 64, No. 1, January, 1938, p. 133).

Action of Valves in Pipes. (The Canadian Engineer, March 29, 1938, p. 28).

DEPARTMENT OF METALLURGICAL ENGINEERING

Montgomery, R. J.—*Ceramic Education and Employment.* (Journal Canadian Ceramic Society, Vol. 7, 1938).

Note on the Use of Sand in Assay Crucible Bodies. (Journal Canadian Ceramic Society, Vol. 7, 1938).

Brickwork as a Professor of Ceramics sees it. (Journal Royal Architectural Institute of Canada, Vol. 14, No. 8, p. 153, August, 1937).

Department of Mining Engineering

Dyer, F. C. and McClelland, H. L.—*The development of a flotation process for the cleaning of clover seed.* (Scientific Agriculture, Vol. XVIII, October, 1937).

Dyer, F. C.—*Analysis of Soil for Seed.* (Scientific Agriculture, Vol. XVIII, June, 1938).

King, J. T. and Wolfe, S. E.—*An improved cuprous chloride method of assay for gold in cyanide solutions.* (Canadian Mining Journal, January, 1938).

FACULTY OF FORESTRY

Dwight, T. W.—*The percent deviation method of constructing volume tables.* (The Forestry Chronicle, Vol. XIII, No. 3, September, 1937).

The fitting of linear regression lines by the method of least squares. (The Forestry Chronicle, Vol. XIII, No. 4, December, 1937).

Hosie, R. C.—*Botanical Investigations in Batchawana Bay Region, Lake Superior.* (Bulletin No. 88, National Museum of Canada, 1938).

ONTARIO COLLEGE OF EDUCATION

The staff of the Ontario College of Education—*"The School": a magazine devoted to elementary and secondary education; two editions. "Elementary" and "Secondary"; monthly except July and August; vol. XXVI, September, 1937, to June, 1938, pp. 1000 in each edition.* (Toronto, the University of Toronto Press, 1937-38).

Diltz, B. C. and Cavell, H. E.—*Living English.* (Clarke, Irwin and Company, Limited, Toronto, April, 1938).

Jones, G. M.—*The Teaching of Civics.* (The School, vol. XXV, pp. 426-519).

The Ryersons. (The School, vol. XXV, p. 860).

Sandiford, P., Cameron, M. A., Conway, C. B. and Long, J. A.—*Forecasting Teaching Ability.* (Bulletin 8 of the Department of Educational Research, University of Toronto, 1937, pp. 93).

Sandiford, P.—*Acquisition of Skills in Skinner's Readings in Educational Psychology..* (New York, Farrar and Rinehart, 1937, pp. 130-158).

Fundamentals of Educational Psychology, Vol. I, Nature's Gifts to Man. (New York, Longmans Green, 1938).

FACULTY OF DENTISTRY

Box, H. K.—*Human Salivary Reactions in the Oral Vestibule and Oral Cavity Proper.* (Oral Health, September, 1937).

The Dunlop Method of Insufflation in Periodontal Therapeutics. (Oral Health, October, 1937).

Corrigan, C. A.—*Extending the Scope of Orthodontic Service.* (International Journal of Orthodontia and Oral Surgery, Vol. 23, No. 8, August, 1937).

Crouch, S. S.—*Suggestions for Preventing Malocclusion.* (The Journal, Canadian Dental Association, December, 1937).

Ellis, R. G.—*The Electrodeposition of Indirect Inlay Models.* (Journal of the Canadian Dental Association, January, 1938).

Lott, F. M.—*The Relation of Arrangement and Design of Artificial Teeth to Denture Stability.* (The Book of Proceedings of the Ninth Austalian Dental Congress, August, 1937, Australian Dental Association).

SCHOOL OF NURSING

Emory, Miss F. H. M.—*The University School of Nursing.* (Published in the Proceedings of the International Council of Nurses, London, 1937).
Health Service in the Community. (The Canadian Hospital, March, 1938).

THE LIBRARY

Wallace, W. S.—*Encyclopedia of Canada, Vol. VI.* (Toronto, 1937).
Sketch of the history of the Champlain Society. (Toronto, 1937).
Some notes on Fraser's Highlanders. (Canadian Historical Review, 1937).
Alexander Fraser of Beauchamp. (Bulletin des recherches historiques, 1937).
Lords of the Lakes and the Forests. (Queen's Quarterly, 1937).
What were Wolf's last words? (School, 1937).

ST. GEORGE'S SCHOOL FOR CHILD STUDY

University of Toronto Studies, Child Development Series, University of Toronto Press.
No. 8, Bott, H.—*Adult Attitudes towards Children's Misdemeanors.* (September, 1937.
No. 9, Blatz, W. E., Chant, S. N. F. and Salter, M. D.—*Emotional Episodes in the Child of School Age.* (November, 1937).
No. 10, Bernhardt, K. S., Millichamp, D. A., Charles, M. W. and McFarland, M. P.—*An Analysis of the Social Contacts of Preschool Children with the aid of Motion Pictures.* (November, 1937).
Collected Studies on the Dionne Quintuplets, Nos. 11-16, Child Development Series, University of Toronto Press, October, 1937.
No. 11, MacArthur, J. W. and Ford, Miss N. H. C. of the Dept. of Biology—*A Biological Study of the Dionne Quintuplets—An Identical Set.*
No. 12, Blatz., W. E. and Millichamp, D. A.—*The Mental Growth of the Dionne Quintuplets.*
No. 13, Blatz, W. E., Millichamp, D. A. and Charles, M. W.—*The Early Social Development of the Dionne Quintuplets.*
No. 14, Blatz, W. E., Millichamp, D. A. and Chant, N.—*The Development of Self-Discipline in the Dionne Quintuplets.*
No. 15, Blatz, W. E., Millichamp, D. A. and Harris, A. L.—*Routine Training of the Dionne Quintuplets.*
No. 16, Blatz, W. E., Fletcher, M. I. and Mason, M.—*Early Development in Spoken Language of the Dionne Quintuplets.*
Poppleton, M.—*Children's Books of Yesterday.* (Canadian Welfare Summary, May, 1938).

ROYAL ONTARIO MUSEUM OF ZOOLOGY

Baillie, J. L.—*The Museum's bird collection.* (R.O.M.Z., Contribution No. 12, 1938).
Baillie, J. L. and Harrington, P.—*The distribution of breeding birds in Ontario, Part 2.* (Trans. Roy. Can. Inst., 21, Part 2, 1937).
Corfe, C. E.—*The praying mantis in Ontario.* (Can. Entomologist, January, 1938).
Unusual abundance of Celerio lineata in Ontario. (February, 1938).
Cross, E. C.—*Antlers, how and why.* (Hunting and Fishing in Canada, November, 1937).
The white-tailed deer crash in Southern Ontario. (Rod and Gun in Canada, May, 1938).
Downing, S. C.—*Second Ontario record for Pipistrelle.* (Journal of Mammalogy, February, 1938).

Kurata, T. B.—*The spiders of Mer Bleue, near Ottawa.* (Can. Field-Nat., November, 1937).
Logier, E. B. S.—*The amphibians of Ontario.* (R.O.M.Z., Handbook No. 3).
Oughton, J. and La Rocque, A.—*A preliminary account of the Unionidae of Ontario.* (Can. Journ. Res. D15, pp. 147-155, 1937).
Shortt, T. M. and Waller, S.—*Birds of Lake St. Martin region, Manitoba.* (R.O.M.Z., Contribution No. 10).
Shortt, T. M., Cartwright, B. W. and Harris, R. D.—*Baird's Sparrow.* (Trans. Roy. Can. Inst., 21, 153, 197. Reprinted as R.O.M.Z. Contribution No. 11).
Snyder, L. L.—*Ontario and its avifauna.* (R.O.M.Z., Contribution No. 12).
An extralimital record of the magpie in Ontario. (Can. Field-Nat., March, 1938).
An Ivory Gull from Oba, Ontario. (Auk, April, 1938).
Snyder, L. L. and Speirs, J. M.—*On the status of the Starling* (*Sturnus vulgaris*) *at Toronto.* (Can. Field-Nat., November, 1937).
Urquhart, F. A.—*The oviposition and cannibalistic habits of the narrow-winged katydid.* (*Phaneroptera pistillata*). (Can. Field-Nat., April, 1938).

(15) THE REPORT OF THE DIRECTOR OF UNIVERSITY EXTENSION AND PUBLICITY

(*W. J. Dunlop, Esq., B.A., B.Paed.*)

University Extension, now completing its eighteenth year of activity, has experienced a particularly good session—in many respects, its best. 6,712 is the number of adults who studied in continuous courses or classes, whether their instruction was that which leads to a degree or a diploma or was of the sort that is taken solely with the purpose of adding to the student's intellectual equipment. As usual, this number included more men than women, there being 3,562 of the former and 3,150 of the latter.

In addition, 182 Extension Lectures were delivered by members of the staff of the University in various cities, towns, and villages in Ontario. These lectures were for the most part single lectures delivered to service clubs, or literary societies, or similar organisations, though in some cases a series of six to ten was delivered by the same professor to the same audience in successive weeks. It is difficult, really impossible, to keep a record of the number of persons who listen to these lectures, but a conservative estimate would be 25,000. The Extension Lecture is generally regarded as a good, though perhaps an informal, university service because it enables thoughtful people to obtain reliable and recent information on subjects that may be of interest to them. Extension Lectures or "local lectures", as they are sometimes termed, have been available in this University since 1894. The number varies considerably from year to year, being larger in times of prosperity and smaller when economic conditions are not of the best.

Evening Tutorial Classes numbered 52 and were attended by 3,225 men and women. The subjects of instruction were: Accounting, advertising, air conditioning, camp education, chemistry, cost accounting, economics, English, French, German, gymnastics, industrial organisation, interior decoration, investments, Italian, journalism, lip reading, mercantile law, metallurgy, modern international relations, music appreciation, nutrition, parent education, psychology, public speaking, purchasing, secretarial practice, Spanish, traffic and transportation, town planning, natural history. In some of these subjects there were several classes. This is a form of extension service which might easily be extended to a greater extent throughout the Province. For these classes there are no admission requirements except mature age; there are no examinations; no certificates; degrees or diplomas. It is most gratifying that so many men and women find this type of instruction interesting and suited to their needs.

The Workers' Education Association Classes had an enrolment of 1442. These classes, to which only manual workers are admitted, were conducted in the following sixteen localities: Brantford, Fergus, Guelph, Hamilton, Kingston, Kitchener, London, Oshawa, Peterborough, Preston, Sault Ste. Marie, St. Catharines, Stratford, Toronto, Windsor, and Woodstock. The subjects of instruction are usually economics, psychology, public speaking, English literature and composition.

In co-operation with the Department of Social Science a short course for social workers was conducted with an enrolment of 72. It would appear that more of these courses may be required because those engaged in social service seem to be especially alert and always desirous of keeping abreast of the newest and best methods.

For the third time a week's course in Public Administration was conducted with an enrolment of 158. This course is becoming increasingly popular. The Department of Municipal Affairs of the Government of Ontario was most generous in co-operating to the utmost in providing lectures and in assisting with arrangements.

A gratifying indication of an increasing desire for education on the part of men and women engaged in business is to be seen in the fact that there were 137 students in the correspondence courses conducted for the Canadian Credit Institute; 168 in the courses conducted for the Chartered Life Underwriters' Association of Canada; and 108 in the Certified Public Accountants' Association courses. These courses constitute a valued service to the organisations which sponser them and the arrangements are almost ideal. This department conducts the courses while the organisations mentioned conduct their own examinations and award their own diplomas.

In the correspondence courses which are prescribed as preparation for the work of the Summer Session there were 206 teachers, most of them preparing two to three subjects. In the Upper School correspondence courses there were 94 teachers, most of whom wrote their examinations in June. In the correspondence courses which are intended to assist teachers who wish to become commercial specialists there were 84 teachers. This makes a total of 797 students taking correspondence courses of some kind with this department.

In the summer courses in pedagogy, which are nominally included in our Summer Session, there were 107 teachers.

The two-year diploma courses in Occupational Therapy and in Physiotherapy are proving to be, in every respect, satisfactory. These are difficult courses, for which the admission requirements are the same as for courses in Arts, and they provide the training necessary for positions which qualified young women find interesting and remunerative. These are the only courses of the kind in Canada. They are probably unique in the fact that, according to information given me, there is not a qualified therapist, a graduate of this course, who is unemployed. Indeed, the demand for these graduates still exceeds the supply.

Every year there is something new in University Extension but one of the oldest of its activities, the Pass Course for Teachers, never fails to attract its quota of ambitious teachers and remains, throughout the years, a most substantial and enduring piece of work. In November, nine graduates of this course were awarded the degree of Bachelor of Arts and at the June Convocation there were 35. A graduating class of 44 would not be considered small in some colleges in Canada. There were 908 teachers, and others, enrolled in the Summer Session and in Teachers' Classes during the year now closing. A Teachers' Class was held in Brampton, the subject being first year economics, and the results of the examinations were particularly good. In order to make a beginning in serving teachers in that part of Northwestern Ontario, which has its centre at Port Arthur and Fort William, a Teachers' Class was commenced, under a special arrangement, with ten students. Many others wished to enrol but lacked some part of the admission requirements. The ten students worked so faithfully in first year pass English, under the tuition of a graduate of this University, that every one of them was successful at the May examinations, three taking (A) standing and two (B) standing in the subject. The Pass Course for Teachers offers a wonderful opportunity for study with a definite goal in view. Men and women who are not teachers may take advantage of the facilities offered to take the instruction and to write the examinations required to obtain a B.A. degree which is of a standard exactly the same as that of the Pass Course in Arts in this University.

Each year brings, as has been said above, something new in University Extension. This year it has been the establishment by the Senate and the Board of Governors of a two-year diploma course in Aerial Navigation which was recommended by the Committee on University Extension. Like the two-year diploma courses now available for young women, this new course will provide an opportunity for young men to obtain training which should fit them for posts which are and will be numerous. This is the first course of its kind in Canada. Already nearly one hundred applications have been received but it is hoped that it may be possible to limit the first class to 25.

University publicity has been carried on as in previous years. Announcements in the newspapers from time to time (almost daily), articles written for newspapers and other periodicals, the exhibit at the Canadian National Exhibition. the placing of the university's advertising, visits to normal schools and collegiate institutes, are the principal features of this work. As always, the daily and weekly newspapers and the Canadian Press have given cordial co-operation at all times.

University extension and university publicity are so inter-locked and inter-related that one is often merely the expression of the other. The underlying principle is that the citizens of Ontario, the proprietors of this University, should know what the University offers them and should be able to take advantage of what it offers if they care to do so. Every man and woman in Ontario could study with the Department of University Extension if he or she had the inclination and were willing to engage in the type of study peculiar to the function of a university. University Extension does what it can to disseminate knowledge. Interest is the basis of education and it is gratifying to realise that so many thousands of adult men and women are anxious for a glimpse into the sphere of higher learning. To meet the needs of such men and women, to give adults who require it a "second chance", to enable others to improve their academic and professional status—such is the chief function of University Extension.

(16) REPORT OF THE DIRECTOR OF THE DEPARTMENT OF SOCIAL SCIENCE

(Professor A. E. Grauer, Ph. D.)

This year marked a change in the directorship of the Department; but the blow of Professor Urwick's retirement was softened by his willingness to continue with his previous lecture courses. Thus staff and students alike are still able to enjoy his wise counsel and inspiring words.

The Department was strengthened by the promotion of Mr. D. G. McCullagh from a part-time to a full-time member of the staff. Mr. McCullagh will act as supervisor of group work studies and his presence will mean that this rapidly developing field of social work will receive more attention in the future. In the field of medical and psychiatric treatment, Miss Emory and Miss Millman of the School of Nursing have cooperated in giving a badly needed new course on the health aspects of social treatment; and Dr. H. Cruikshank delivered a valuable series of lectures on the social problems occasioned by disease, a series which he has consented to give regularly in the future.

The Department strengthened its relations with social welfare agencies in the province by organising an evening refresher course throughout the winter months in cooperation with the Canadian Association of Social Workers and the Department of University Extension. and is continuing this policy by arranging, in cooperation with the Department of University Extension. for a short course in case work during the summer for qualified social workers under the direction of a leading American case worker. The Department feels that such activities are but a small return for the many things that the public and private agencies do for it, especially the valuable voluntary supervision given the students in field work.

A survey of job-turnovers, age-distribution, income-distribution, and other important facts relating to the employment of social workers throughout Canada was begun in December and will be completed by the summer. This information will be of value to those intending to enter welfare work as a career, as well as to social workers in the field.

There were 64 students registered in the Department this year, divided as follows: 25 in the first year, 16 in the second year, and 23 occasionals. It is interesting to note the national character of the enrolment; 22 students were from the four western provinces, and six from those east of Ontario. Students were in attendance from every province in Canada except Prince Edward Island and New Brunswick.

(17) REPORT OF THE DIRECTOR OF THE SCHOOL OF NURSING

(*Miss E. K. Russell*)

Five years ago the School was established for the purpose of organising an adequate training course in public health nursing and it has taken all this time to get this new work well started. A good beginning has been made and order is appearing now out of chaos, but long and patient study lie ahead if this School is to proceed satisfactorily. The nature of the work which we call public health nursing must be better understood before we can afford to be dogmatic about the education and training of the worker. Thus the School should continue quietly with the research upon which it has started. The School was given, first, a trial period of five years which is now ended, and arrangements have been made to proceed with continued financial help from the Rockefeller Foundation. Permanent endowment is required in order to get the institution properly established: it is hoped that there will be much understanding of the need for well prepared public health nurses so that this necessary support will be forthcoming. Students are enrolling in the new course in increasing numbers although registration must be restricted because of the very limited accommodation at the disposal of the School.

This new course resembles in type certain courses that are being given in several European schools but it is a type that is strange and little understood, as yet, in this country. Hitherto the prospective public health nurse has prepared herself for her task by taking a post graduate year at the end of three years of hospital training. Now this School is offering a basic training course so organised that it becomes a well-sustained preparation for public health nursing throughout the three years of its extent, while, at the same time, a thorough training in bedside nursing is interwoven with this as an essential part of the whole.

The certificate courses for graduate nurses continue to develop satisfactorily and to attract students in increasing numbers. The large enrolment in these classes is straining the small resources of the School.

The statistical report for the year is as follows:

Undergraduate course	33
Graduate nurses in the certificate courses	73
Occasional students, including undergraduates from Toronto hospitals	173
Enrolment in refresher courses	187

(18) REPORT OF THE DIRECTOR OF THE DEPARTMENT OF MILITARY STUDIES

(*Major M. Barry Watson, B.A.Sc., C.E., M.E.*)

I have the honour to report as follows on the work carried on in this Department during the academic year, 1937-38.

Due to the fact that this subject is an option for academic credits in the pass arts course and two years of the course in medicine only, and that time table arrangements did not permit of students in the latter course taking this option, the number of students taking Military Studies as an academic subject was small.

The enrolments in the special classes (Courses 4 to 7 in the Calendar) however, was gratifying in view of the fact that these classes are voluntary, extra to the curricula and regular time table periods. The total registrations in all classes was 136.

This voluntary enrolment is no doubt due to the realisation by a considerable proportion of the student body that Canada must carry her share of the defence burden of the Empire, as well as to the large number of professional opportunities now offered for men of university standing in the defence forces of the Empire. Students in these special classes may obtain, concurrent with their university courses, through the Canadian Officers Training Corps, and the War Office in London, qualifications for commissions in various forces throughout the Empire. The relative numbers taking this extra work also indicates that the inclusion of Military Studies as an optional subject in other courses would be well received by the male students.

Attendance has been well maintained in all classes throughout the year, and the interest displayed was most encouraging. The attendance at the various courses of lectures overtaxed the capacity of the available quarters, and rooms in the engineering building were used for this purpose.

The results of the War Office examinations held in March, 1937, for qualification for commisions in the defence forces, showed 76 per cent of the candidates being successful; which retains the position of this University as above the average of all Canada and all Great Britain. The actual number of successful candidates being exceeded only in the University of Alberta.

Due to the increasing preference for university men, especially Canadians, as officers in the Regular Army and Air Force, and the very attractive conditions offered, a number of our graduates are adopting military work as a profession.

Some changes in the curriculum in this Department are being introduced which it is expected will enhance its value. These include the substitution of more work in military history and the geography, trade and economics of the British Empire, replacing the more detailed tactical and strategical studies.

(19) REPORT OF THE UNIVERSITY HEALTH SERVICES (MEN)

(George D. Porter, M.B., Director)

I.

The report of the year shows that there have been

Examinations:—

First year students	858
Second " "	728
Senior " "	710
Total	2296

There were also fifteen re-examined by specialists.

This is the largest number so far examined due to the extra number of senior students coming in for health certificates.

The results of the examinations this year were very satisfactory. The physical conditions of a large majority of students is excellent, only nineteen being unfit for physical training. This is the best record we have ever had.

Results:

Those found fit for physical training	96 %
Those having some disability requiring corrective or light exercises	2½%
Those unfit for physical training	1½%

Nineteen students were exempted for the following causes:—

Operations	7	Duodenal ulcer	1
Infantile paralysis	2	Arthritis	1
Heart trouble	5	Nephritis	1
Spinal trouble	1	Osteomyelitis	1

The average height of our first year students is 5 ft. 9¾ in. and their weight 144½ lbs. This makes our highest average.

It may be interesting to note that our freshmen stand first in height as compared with those of Eleven American Universities, and second in weight, and that the general upward trend in height and weight is very noticeable in the past sixteen years.

Improvement in the physical condition of the second year students is shown in the majority of cases. Twenty-eight per cent. of those below category A.I. in their first year had their rating raised during the year, while only five per cent. in all categories had their rating lowered; these latter were lowered owing to illness or accident during the year.

The great majority of senior students coming in for examination for athletics also show improvement in their physical condition. We were very fortunate in having no cases of infantile paralysis or any other serious infectious diseases during the year, and apart from the usual, but comparatively mild epidemic of influenza, the general health of the student body has been excellent.

There were 105 students enrolled in the special classes under Mr. Martin for the correction of such defects as round shoulders, flat feet, and spinal curvature, and 55 others for period of from one to six weeks on account of injuries or disabilities, and those recovering from illness which prevented their taking the regular P.T.

Dr. Charles Gossage attended a large number of students for injuries received on the campus, and in the gymnasium, as will be seen in his report to the Athletic Association.

Personal advice to may students, and lectures on personal hygiene to those in the first year taking physical training, were given by the Director of Health Service. These were well attended as they have been in previous years.

We are greatly indebted to Prof. Andrew Hunter, professor of pathological chemistry, for undertaking the supervision of the uranalysis, in connection with the physical examination of the students.

Illnesses and accidents for which temporary absence from physical training were allowed. This is the best record we have ever had regarding exemptions, and noteworthy for the absence of serious infectious diseases.

Colds	241	Mastoid	2
Influenza	16	Torticollis	1
Bronchitis	2	Transfusion	1
Pharyngitis	18	Lumbago	3
Laryngitis	5	Jaundice	3
Tonsillitis	3	Local Infection	9
Sinusitis	5	Ingrowing toe nail	2
Gastritis	9	Cardiac	1
Neuritis	1	Dental trouble	5
Appendicitis	4	Hernia	1
Migraine	4	Nephritis	1
Epistaxis	3	Vaccination	1
Otitis Media	4		
	315		30

Operations

Tonsils	4	Foot	1
Nasal	3	Glands	1
	7		2

Injuries

Fractures	5	Sprains	36
Dislocations	5	Cuts	2
Abrasions	9	Contusions	7
	19		45

Skin Diseases

Furunculosis	15	Acne	1
Scabies	1	Athlete's foot	1
	16		2

Total........................436.

(19) REPORT OF MEDICAL ADVISER OF WOMEN

(Dr. Edith Gordon)

II.

I beg to submit the report of the Medical Adviser of Women for the year 1937-1938.

The work of the Medical Office began early in September, and continued through to nearly the end of June. Physical examinations of the students of the School of Nursing necessitated the early opening and late closing. Their term begins before that of the University proper, and re-examinations are made at the end of the year on all the graduate group.

Physical examinations were made on entering students in University College, Medicine, and Household Science to the number of 214. These young women are required to take physical training during the first year of their attendance. Of these, 83.2% were fit and able for the gymnasium and swimming requirements; 2% were asked to attend one or two special corrective classes weekly for a part of the whole of the year. Re-examinations were made of these students in January. Only 5.6% were exempted from physical activities of some kind, because of temporary or permanent disabilities. This group reported twice weekly to the medical office for rest periods or walks. In this way the first year students most needing it, were given the closest supervision. 306 students from the other years of University College, Medicine and Household Science, as well as from Trinity, Victoria and St. Michael's Colleges, and other faculties and departments were examined. Included in this group were 66 women of the graduating class who responded to an offer for a re-examination before leaving college. For some years the Medical Advisor of Women has been attempting to interest all the women of the graduating class in such a check over in the spring of the year. This year saw the largest response so far. Of these 62% showed some improvement over their physical condition on entrance; 14% showed no appreciable difference; and 24% were not in as good condition as on their initial examination.

Participants in the various sports are required to present to their managers a certificate of physical fitness before taking part in the games. 226 such certificates were issued after examining the would-be players.

Intercutaneous tuberculin tests were performed on all the entering students, and on those whose previous test had been negative. 43.6% gave positive reactions. These were X-rayed. The filming was done in the department of anatomy. I am indeed grateful to Dr. Grant and his staff for their cooperation in this work. Two cases of active tuberculosis were discovered. These were entering students, and both are at present in sanatoria undergoing treatment.

With the help of the five young women in the final year of the Diploma in Physical Education course, and one young woman from the fourth year of the Faculty of Medicine, a beginning was made on a study in posture using the line of gravity apparatus which was built some years ago for Dr. Cates of the department of anatomy. This work proved most interesting, but was too time-consuming to permit the attention it merited. A graduate in physical education could well give a year to investigation on this problem.

Another interesting study was provided through the courtesy of Dr. B. L. Guyatt of the department of anatomy. He arranged for a high vitamin and chlorophyll product in sufficient quantities to give to students whose haemoglobin was 70% or lower, and who were not, or did not wish to be under treatment elsewhere. More than

50 students were included in this group. Haemoglobin, red cell count and differential count were done monthly on those taking the product. The result in many cases was gratifying and in a few instances was almost spectacular.

In the spring of the year, the Medical Adviser was approached by Miss Helen McMurrich of the extension department, and Mr. Thos. Cole, the representative of the Northern Electric Co. for their hard of hearing appliances and audiometers, with the suggestion that a survey be made among the women students to discover the percentage of hard of hearing. Through the courtesy of Miss Coventry who gave over a physical training class period for this work, and Miss Russell of the School of Nursing who arranged to have the post graduate students given the opportunity for being tested, 142 were tested. 106 were undergraduates, and 36 were graduates. Of these, 27 of the undergraduates showed a distinct loss of hearing in one or both ears, and 15 of the graduate nurses were similarly affected. I am hoping to include this hearing tests in the regular entering examination next fall.

The number of students coming into the Medical Office daily for consultation re health problems, and for treatment for minor ailments continues to be large. 36 vaccinations were performed, and 160 urinalyses were made.

During the final examination period in May the Medical Office cares for students who are too ill to write their papers in the regular examination halls. 61 women students wrote papers in the medical office, and 160 papers all told were written.

Lecture courses were given to the students in the Diploma in Physical Education course. To the first year, 25 lectures in personal hygiene and first aid were given. In addition to the final tests by the Medical Adviser, this group tried the examinations of the St. John Ambulance Association, and all passed successfully. To the fourth year, 20 hours of lectures and demonstrations in the diagnosis of physical defects were given. Three health talks were given to the entering women, following the completion of their physical examinations, and based upon their findings. In March, four lectures in personal hygiene were given to the Public Health Nursing class.

It was a great disappointment to realise that the erection of the Women's Gymnasium Building had again to be postponed. The need of adequate accomodation for physical training and recreation for the women is so pressing that it can hardly be too much emphasised.

Physical Examinations, 1937-1938:

University College (entering students)	181
University College (others)	79
Victoria College	37
Trinity College	28
St. Michael's College	12
Medicine (entering students)	12
Household Science (entering students)	21
Household Science (others)	2
School of Nursing (undergraduate)	25
School of Nursing (postgraduate)	67
Social Science	30
Physiotherapy	5
Occupational therapy	6
College of Education	2
Graduate School	6
Optometry	2
Special	5
Total	520
Margaret Eaton School	53
Grand Total	573

Students required to take Physical Training: first year University College, Medicine. and Household Science	214
Grades A1 and A2; physically able to participate in the required gymnastic and physical activities	83.2%
Grade B1; needing special corrective work	11.2%

Grades B2 and C; excused from physical training requirement because of some temporary or permanent disability. These students report twice weekly to the Medical Office for rest periods or walks	5.6%

Senior students of University College and Household Science who were examined in the spring of 1938. Compared with their examination upon entrance to the University.

Showing improvement	62. %
Showing no improvement	14. %
Showing retrogression	24. %
Total examined	66.

(20) REPORT ON ATHLETICS AND PHYSICAL TRAINING

(*T. A. Reed, Mus.Bac., Secretary. Athletic Association*)

(1) MEN

I have the honour to submit the following report on the acitivities of the Department of Athletics and Physical Training for the season 1937-38.

The work has followed the usual course under the able supervision of Mr. Warren Stevens, our director of athletics. In this he has been loyally supported by the regular instructors, Messrs. W. H. Martin, J. E. McCutcheon, W. W. Winterburn and Charles Zwygard.

A most gratifying feature has been the greater interest and participation in our intramural programme initiated last year and now being developed under Mr. McCutcheon to a greater degree of efficiency and participation. The opening of the Gymnasium and Swimming Pool in the evenings has meant a greater number availing themselves of the facilities and allowing for more group competition in the indoor activities. 1555 male students or 45 percent of those eligible participated in this programme. The Committee in charge, consisting of the presidents of athletics in the faculties and colleges with W. M. Sprules (Trin. III) as Chairman, proved a most valuable advisory council to the Athletic Directorate in the administration of the intramural programme.

The imposing of an athletic fee by the Board of Governors was also attended by satisfactory results. The privileges granted the students, both men and women, were varied. Of prime importance was the opening of the Gymnasium and Swimming Pool in the evenings, the expenses being met by the Athletic Association out of receipts from that fee. This removed a grievance long felt by the senior men in the professional faculties where, due to long hours in laboratory work, they could not reach the Gymnasium before closing time. Other privileges made possible by the fee were admission to all university rugby and hockey games; to the outdoor skating rink each afternoon and two evenings a week; instruction in figure skating and golf; affiliations with a golf club and riding club for reduced fees and accommodation for skiing during the winter months.

Physical Training

The number of students in the first and second years taking Physical Training was slightly smaller than the previous year. In addition to the Danish gymnastics, upon which the training is based, gymnastic apparatus and mat work was included. The urging of first year students to learn to swim and qualify for the Royal Life Saving awards was reflected in the increased number joining these classes. Enrolment in our contingent of the Canadian Officers Training Corps again proved popular, their being a slight increase in the number voluntarily choosing this as an option.

Enrolment

Men students in the first and second years	1761
From third and fourth years (being deficient in previous years)	21
	1782

From this total must be deducted those:

(*a*) With credit for two years physical training but repeating academic work	206	
(*b*) Exempt on medical and other grounds	43	
(*c*) Withdrawn from college during the session or registration cancelled	23	
(*d*) Failed to register	13	
		285
		1497

These 1497 elected to take their Physical Training as follows:

In Physical Training classes		1084	
In the Canadian Officers' Training Corps		215	
In Special Classes for those physically deficient		87	
In the following Intercollegiate and Interfaculty Sports (part-time):			
Rugby	198		
Soccer	41		
Track and Harrier	98		
English Rugby	5		
Lacrosse	35		
Volleyball	99		
Boxing, Wrestling and Fencing	44		
Swimming and Water Polo	88		
Indoor Baseball	161		
Basketball	190		
Hockey	177		
Rowing	33		
Gymnastics	31		
Tennis	4		
Figure Skating	7		
Jui Jitsu	13		
		1224	
		2600	
Less those participating in two or more activities		1103	
			1497

There were twenty-five class periods each week in the Gymnasium, of which the majority were conducted by Mr. Chas. Zwygard. The average class attendance was 44 although some were as high as 135. The programme consisted of Danish calisthenics, elementary apparatus, games and mat work. Mr. Martin conducted special classes for the 87 students physically unfit to take the more strenuous work in the Gymnasium. Mr. Martin also supervised the instruction in boxing, fencing and wrestling. In swimming Mr. Winterburn conducted 251 Learn-to-Swim classes or 11 per week. 185 students were taught to swim, 59 students were enrolled in the intermediate classes of which there were 3 per week and 434 in the 20 life saving classes. There were 225 awards granted by the Royal Life Saving Society. Mr. Winterburn also supervised the water polo competitions in the Interamural programme and the various swimming meets, besides acting as assistant coach of the University swimming and water polo teams.

Intercollegiate Athletics

The University of Toronto was represented in all branches of intercollegiate sport. The senior championships were the track, tennis, English rugby. golf, swimming, gymnastics and the boxing and wrestling. The individual Gymnastics championship also was won by W. J. Lester, (Ap. Sc. II) of Toronto. In boxing and wrestling we again retained our own "Tom Gibson Cup" and in Track competition wrested from McGill the Tait Mackenzie Trophy after their seven years of unbeatable superiority.

During the year the Athletic Association decided it was high time to recognise the valuable services of Mr. Charles Walters who, for the past twenty years has given gratuitously of his time and talents to promote the cause of intercollegiate fencing. It was therefore decided to offer to the Canadian Intercollegiate Athletic Union a trophy for team competition in senior fencing and a smaller individual trophy for the fencer winning the highest points at the annual intercollegiate meet. Both these trophies bear the name of Charles Walters. The individual championship was won by A. L. Garcia, (Ap. Sc. II) of Toronto and the team championship by McGill University.

Of intermediate championships we won the soccer, tennis, hockey, basketball, swimming and fencing.

In adition to our annual competition in the Canadian Intercollegiate Athletic Union, several of our senior teams continued the pleasant athletic relationships established with many U.S. Colleges. The hockey team met Harvard, Yale, Princeton and Dartmouth, as well as the two leading teams of the mid-west, University of Minnesota and University of Michigan. The heavy crew completed their season by rowing against Syracuse University. In basketball we competed with Cornell, Syracuse, Buffalo, Rochester, Assumption, Detroit, Canisius, St. Lawrence, Clarkson and Niagara. The boxing, wrestling and fencing teams met the U.S. Coast Guard Academy, Cornell, Alfred, Rochester, Buffalo, St. Lawrence and Wayne. The swimming team had a fine year meeting Rochester, Syracuse, Buffalo and Canisius. The English rugby team enjoyed a fast game with the Chicago Rugby Club and the lacrosse team ended the season by meeting Dartmouth, Syracuse and Springfield. The international fraternising was of inestimable value both as to experience and in upholding the honour of our University in contests across the border.

Intramural Competition

The schedule herewith indicates the interest on the part of the students, for while 284 represented the University in intercollegiate competition, 1372 men turned out on college and faculty teams.

Series	Name of Cup	Winner	Interfaculty teams	Players
Rugby	Sir William Mulock	Victoria	10	252
Track	W. L. Rowell Memorial	S.P.S.		45
Soccer	Arts Faculty	Victoria	10	153
Harrier	J. Brotherton	Wycliffe		51
Hockey	W. T. Jennings	Victoria	17	265
Basketball	Clifford Sifton	Med. III	22	314
Lacrosse	Dr. W. A. Dafoe	Sr. S.P.S.	9	105
Sr. Boxing, Wrest. & Fencing	Francis Davison	S.P.S.		44
Jr. Boxing, Wrest. & Fencing		S.P.S.		67
Indoor Baseball	A. G. Spalding	Dents	21	369
Sr. Swimming	A. M. Fitzgerald	S.P.S.		48
Jr. Swimming		S.P.S.		61
Water Polo	H. P. Eckardt	Sr. Vic.	11	149
Indoor Track	Toronto Cricket Club	Victoria		75
Tennis	F. Y. McEachren (for University champion)	W. P. Pigott (S.P.S. III)		37
Gymnastics	H. A. Wilson	S.P.S.		27
Volleyball	Victoria College Staff	Dents	18	224
Individual Swimming	H. Durnan	G. H. Clawson (U.C. I)		16
				2307
Less those participating in two or more sports				935
Number of contestants				1372

Special Awards

The John C. H. Copp Memorial Trophy, awarded each year to the worthiest member of the senior rugby team, was won by C. C. (Cam.) Gray, Med. V, an outstanding member of last year's team. The Don Barton trophy, established in memory of our former physical director, and awarded annually to the gymnast showing the greatest improvement during the year, was awarded to L. A. Patterson (Ap. Sc. II).

In the summer of 1937 one of our most promising students and athletes, T. H. Bickle, Trinity class of '38, lost his life by unselfishly going to the assistance of some friends. During the session his parents established a Bursary to bear his name which was, by unanimous decision awarded to M. W. Murphy (U.C. '35) of Wycliffe College, a team mate and member of the senior intercollegiate swimming team.

The Varsity Arena was again used during the summer for the Promenade Symphony Concerts which now, in the fifth year of their existence, have become established in the musical life of the community. It has afforded facilities for a great mass of people to hear symphony concerts for the small sum of 25c. There were twenty concerts given with an average attendance of 4,500 people. As the charges for the building are placed at the lowest possible figure to cover out of pocket expenses, it means that the University is continuing to contribute generously to the musical life of Toronto.

The Athletic Directorate

The Athletic Directorate for 1937-38 consisted of Dr. J. A. McCollum (President), Professor T. R. Loudon, Professor S. Beatty, Dr. W. Easson Brown, Messrs. M. F. Williams (Vice-President), J. P. N. Holden, L. G. O'Connor, H. B. Shipman, T. W. Sullivan, E. B. Tovee, and *ex officio*, Dr. G. D. Porter, Medical Director; Warren Stevens, Director of Athletics and T. A. Reed, Financial Secretary.

(20) REPORT OF THE DIRECTOR OF PHYSICAL EDUCATION FOR WOMEN STUDENTS

(*Miss I. G. Coventry*)

(II) WOMEN

In the past academic year 1937-1938 there were 238 women students registered in the physical education classes and approximately 787 class periods of instruction were given by the Physical Director and her assistant Miss J. M. Forster and Mrs. M. Graham.

Required Physical Training: The required physical training class with an enrolment of 216 students was subdivided into 15 class periods a week. This plan, as formerly, assisted principally in accommodating the students who presented varied academic time-tables and also lessened the congestion in the one small gymnasium and the over-crowded dressing-room quarters.

The students enrolled in the regular classes were required to take the final tests in general gymnastics and corrective exercises at the end of the year. The annual report of these examinations was submitted to the Registrar of the University.

Corrective and Remedial Classes: Class periods of corrective and remedial gymnastics were given to the students who were medically advised to take the special course arranged for their benefit and welfare. The Physical Director personally supervised this essential part of health physical training. Frequently such good results were obtained that it enabled the students to return to the regular classes.

Number of students from University College	192
" " " " Faculty of Medicine	15
" " " " Faculty of Household Science	6
" " " " Victoria College	3

Swimming: There were 212 students from all colleges, faculties and departments and over 240 periods of instruction in elementary and advanced swimming and life saving given by Miss A. Cochrane and Mr. A. L. Cochrane during the session of 7 months.

Number of students from University College	123
" " " " Victoria College	21
" " " " Faculty of Medicine	7
" " " " Physical Education Course	23
" " " " Faculty of Household Science	6
" " " " Trinity College	2
" " " " School of Nursing	4
" " " " Social Science	2
Administrative Staff	24

Four Year Diploma Course in Physical Education (with the Pass Arts course): There were 24 students registered in this course and approximately 722 class periods of lectures, theory and instruction were given during the college year. Periods of theory subjects numbered 272 and of practical subjects 450.

The women graduates who have been granted the diploma in physical education by the University of Toronto continue to be appointed physical directors or instructors in the Ontario schools.

(20) REPORT ON ATHLETICS FOR WOMEN

(*Miss A. E. M. Parkes*)

III.

The Women's Athletic Association is happy to report a considerable increase in participation in athletics by the women undergraduates for the year 1937-38. This is particularly noticeable in the recreational sports which do not involve organised competition. This development may be traced almost entirely to the increased facilities provided by the new athletic fee which has been welcomed by the women as well as the men. Due to the affiliations made with golf and riding clubs, it became financially possible for a large number of women to enjoy these forms of exercise. Similarly the skiing grounds and cabin were much appreciated. Class instruction in figure skating and golf was also provided and approximately twenty-five women enrolled for each course. An amount proportionate to that used to keep the athletic wing of Hart House open at night was turned over to the Women's Directorate. It was decided by that body that the major portion should be held in trust to be used for certain purchases of athletic equipment, etc., which would become necessary when a new women's athletic building is erected. With the remainder, bowling alleys were rented and made available to women students at a minimum charge. Afternoon hours only could be obtained which limited the numbers, but approximately forty students bowled for one hour a week for ten weeks under the scheme.

The regular programme of competitive sports was carried out as usual and provided great enjoyment for all participants. In the field of intercollegiate sport, championships were well divided, Western retaining the basketball, while Queen's won the tennis, with McGill providing the individual champion, and McMaster won its first intercollegiate championship of any kind in the newly-organised badminton tournament. Toronto won a sweeping victory in the swimming meet, coming first and second in all events and setting four new records.

With the University, tournaments in tennis, badminton and swimming were conducted by each college in addition to the regular intramural competition. A golf tournament was held in the fall as well as the intramural series in basketball and baseball, and the hockey series was conducted in the winter term. Students taking part in one or more of these activities or in the bowling tournament were registered in University, Victoria, Trinity and St. Michael's Colleges, the Faculty of Medicine, the School of Nursing, the Department of Household Science, Occupational and Physiotherapy and Physical Education. Several students registered in the Ontario College of Education and in the Department of Physical Education also acted as coaches. Championships were much more evenly divided than last year, with Victoria retaining the tennis and baseball University College the swimming, while St. Hilda's won the hockey and University College the badminton. The championship most generously applauded by all concerned was that won in basketball for the first time by St. Michael's College.

In the actual intramural competitions sponsored by the Association, entries were as follows: tennis, 30; basketball, 130; hockey, 58; swimming, 48; badminton, 30; baseball, 27; bowling, 40; golf, 16.

The women are indebted to the men's Directorate and to officials of the Athletic Association and the Superintendent's Office for assistance and co-operation on many occasions.

The Women's Athletic Directorate for the year 1937-38 consisted of Dr. C. C. Benson, President, Mrs. W. A. Kirkwood, Mrs. W. B. Elsley, Dr. Edith Gordon, and the Misses J. M. Forster, M. E. Best, M. J. Brownlee, M. F. Davidson, M. I. McLaughlin, K. G. Mayes, J. A. Rea, and A. E. M. Parkes, Financial Secretary.

(21) REPORT OF THE ACTING WARDEN OF HART HOUSE

(*Mr. J. R. Gilley*)

THE WARDEN

During the summer of 1937 Mr. J. B. Bickersteth had a recurrence of the illness from which he suffered for several years after the war and on the advice of his doctors in England did not return to Hart House last September. He was granted leave of absence for the academic year 1937-1938 and it is gratifying to know that he has now almost regained his health and will be able to resume his duties in August. For seventeen years Mr. Bickersteth has whole-heartedly flung himself into the life of Hart House. His energy and devotion to the affairs of the House are reflected in the steady growth of its various activities during this period. In view of the absence of the Warden it was inevitable that the life of the House would suffer a severe blow. This handicap, however, has been overcome to a certain extent by the willing and sincere co-operation of the various committees and all member of the staff.

GENERAL

The opening of the University in September was postponed one week on account of the poliomyelitis epidemic which made necessary the change of date or the cancellation of various meetings and functions. The Massey Foundation continue to show keen interest in all phases of the life of the House. Realising that for some years the Faculty Union required additional accommodation, the Foundation generously provided funds for the construction of a new sitting-room on the third floor, for the much needed renovation of and new equipment for their serving room and alterations in their dining-room. These improvements are greatly appreciated by all members of the Faculty Union.

A unique gift in the form of a historical and pictorial map was formally presented to Hart House by Mr. Vincent Massey on behalf of the Massey Foundation in October, 1937. This map 6′ x 5′ is an excellent example of the work of the well-known artist, Mr. A. Scott Carter. Done in vivid colours it presents a complete survey of the University property and includes the heraldry of various colleges, benefactors and persons connected with the University. Another acquisition was a plaster representation of the coat of arms of Canada, with its heraldic supporter, which formed part of the decoration of the temporary building known as the annex erected at the west end of Westminster Abbey for the Coronation of Their Majesties King George VI and Queen Elizabeth on 12th May, 1937. It was presented by H. M. Office of Works to Mr. Vincent Massey and was given by him to Hart House, having now found a place in the debates room.

For several years it has been known that the accommodation in Hart House for the Students Administrative Council has been totally inadequate and steps have now been taken to enlarge these quarters by the addition of the room immediately to the west of their present location: at the same time the partition between the new room and that occupied by the General Secretary-Treasurer of the S. A. C. has been removed. This necessitated alterations to the Hall Porter's desk and the room adjoining it. The expense of these structural changes has generously been borne by the Board of Governors.

There was a slight increase in the membership of Hart House during the past year, there being 3717 undergraduates and 726 senior members with a total of 4443.

The Shop where light refreshments and sundry articles are sold had a most satisfactory year. An additional room in which students may eat their lunches was provided and it with the other two were decorated in attractive colours. As in past years many large and small functions were held during the winter including the Engineering Society Dinner, the Athletic Association Dinner, the University College Follies, School Night, Alumni Night, the Faculty of Forestry At-Home. the Trinity College Conversazione, the Commerce Club Dinner, the Law Club Dinner and the C. O. T. C. Ball. The tickets for the Graduates Ball on New Year's Eve were in good demand which showed that this annual function still retained its popularity among the senior members of the House. The first Visitors' Day of the term in October was as last year for the general public as well as for members of the House and over 1500 persons availed themselves of the opportunity to make a tour of the building. Again this year the University Settlement Party was held in the last week of the Michaelmas term when about 300 men and boys were the guests of Hart House. At the Warden's Christmas Dinner held on the first evening of the Christmas vacation approximately 70 men, all of whom would not be spending any part of their vacation at home. were in attendance.

ART

An exhibition of the work of Mr. A. Y. Jackson and Mr. E. H. Holgate opened the series held in the art gallery during the academic year. Other exhibitors were Professor Barker Fairley (a faculty member of the House), Mr. F. S. Panabaker, Mr. Bertram Brooker. Mr. L. F. Casey, Mr. A. J. Casson, Mr. André Bieler, Dr. Gordon Pearson and Mr. Louis Muhlstock. Among the members great interest was shown in the paintings of these artists as there was also in the photographic exhibition arranged by the Camera Committee. The exhibition in February of work done by the undergraduates included drawings and paintings together with a mural executed in the arts and crafts room under the supervision of the instructor, Mr. Carl Schaefer, and etchings, lino-cuts, wood-carving and sculpture also done there. The graduate members and members of the faculty showed their work in the gallery in March when several exhibitors, formerly unknown to the committee as artists, showed their work for the first time. Reproductions of paintings by landscape artists as well as those by Spanish, French and Modern Masters were shown in the print room. On two occasions Mr. Arthur Lismer reviewed exhibitions in the gallery—the first being that of children's work done at the Art Gallery of Toronto and the other that of the work of the undergraduates. This was the first time that the undergraduates exhibition had been reviewed and this event drew about one hundred students to the gallery to hear the criticisms of Mr. Lismer. After Christmas Mr. André Bieler and Dr. Gordon Pearson each reviewed his own pictures while on view in the gallery. Mr. H. S. Palmer again conducted the weekly art class in which nineteen members were enrolled and attended regularly. Mr. A. Y. Jackson and Mr. F. H. Brigden were re-appointed for a three year period as the Advisory Committee of Artists. On their recommendation two pictures—"Draped Head" by Jack Humphrey and "The Saw Mill" by André Bieler—were added to the Hart House collection. Through the courtesy of its Director. Mr. Eric Brown, the two sketches by Tom Thomson were repaired at the National Gallery during the past summer and at present four canvases are there for cleaning and minor repairs. It was found necessary to add a section to the bookcase in the gallery to accommodate the art library to which additions are made from time to time through gifts and as funds become available for this purpose.

MUSIC

As in the past the Sunday Evening Concerts held during the year were exceedingly popular and on the occasion of each concert the Great Hall was filled to capacity. We are indebted to the following musicians for the programmes: Mrs. Wilma Stevenson Dohler, Mr. Albert Pratz and Mr. Leo Barkin. Mme. Emmy Heim. the Hart House String Quartet (on their return from an extensive European concert tour), the Hart House Glee Club and Miss Margaret Oliver, and the Conservatory String Quartet (using viols and modern instruments) with Mr. Alberto Guerrero (playing the harpsichord). The Friday Afternoon Recitals attracted a large number of students. These informal recitals provide all members of Hart House—undergraduates, graduates and members of the faculty—with an excellent opportunity to acquaint themselves with and to enjoy chamber music in an ideal setting. During the past winter Sir Ernest McMillan, Mr. George Lambert, the Toronto Trio, Mr. Viggo Kihl, Miss Marion Copp, the Philharmonic String Quartet and Dr. Harvey Doney were among those who contributed to the success of the recitals. Under the direction of Mr. J. Campbell McInnes the Songsters had a splendid season with a most satisfactory attendance. Members are deeply grateful to Mr. Ross Workman who has so ably conducted the popular Midday Sing Songs. To the musicians of Toronto who through their generosity have made possible such outstanding musical events in the life of the House during the past academic year is owing a real debt of gratitude. Under the direction of Dr. Charles Peaker the Hart House Glee Club has developed at the same time maintaining their membership of one hundred men. Before the close of the first term the club sang carols one evening during dinner in the Great Hall and in February with Miss Margaret Oliver (pianist) they performed at a Sunday Evening Concert. In addition to these two functions they sang on several occasions outside the University.

DEBATES

Again five debates were held during the year when the motions before the House dealt with the influence of the rearmament of Great Britain on peace, the effect of the expansion of Japanese foreign trade on the Far East, the narrow outlook gained through the study of science, the final manifestation of a decadent civilisation as illustrated by Canada and the policies of Anthony Eden. The Hon. Visitors included Rabbi Maurice N. Eisendrath, representatives from the University of Melbourne and McGill University, Mr. J. D. Gibson (a graduate of University College, now an economist with the Bank of Nova Scotia) and Dr. H. B. Speakman. The attendance at the debates was not as large as it was hoped it would be, but those who came were very enthusiastic and showed much interest and on no occasion was the Speaker able to allow all those to speak who wished to do so.

STUDENT CHRISTIAN MOVEMENT

The most outstanding activity of the Movement in Hart House this year was the Wednesday noon-hour addresses in the music room on the general theme "Christianity Faces a New World." The addresses aroused considerable interest and were well attended. Among the speakers were Shoran Singha of India, Dr. W. C. Lockhart, Mr. Woo Da Ling of China, Dr. Stanley Russell, Professor T. W. Isherwood, the Rev. E. S. Lautenslager, the Rev. J. D. Parks, the Rev. W. L. Smith, the Venerable Archdeacon Fotheringham, the Rev. G. Cragg, the Very Rev., the Dean of Toronto, Dr. J. R. P. Sclater, Dr. Crossley Hunter, Professor G. Wilson Knight, Dr. S. Sisco, the Rev. E. J. McCorkell and Dr. Richard Roberts. In the Chapel, which is used by a number of undergraduates for private prayer and meditation, there was an early Sunday morning celebration of Holy Communion on the second Sunday of the month. Every Tuesday during term a short midday service lasting twenty minutes took place there and on Thursday at noon a group met in Wycliffe College for prayer. Archbishop Owen spoke at the Lenten services during March which the Rev. Philip Beattie conducted. There are signs that during the past year not a few undergraduates have reached a deeper realisation of the value of prayer and meditation. The Movement played an active part in promoting the National Conference of University Students which met at Winnipeg during the Christmas vacation. The Dean of Exeter Cathedral and Professor Reinhold Niebuhr of New York were among the main leaders. The Dean visited the University on his way to Winnipeg. Among other prominent leaders the S. C. M. brought to the University during the academic year were Mr. Max Yergan, Dr. John Mackay, the Rev. W. Paton, Dr. T. Z. Koo, Mr. E. K.

Higdon, Mlle. Suzanne de Dietrich, Miss Rose Terlin and Dr. Sherwood Eddy. The S. C. M. further were largely responsible for the appeal in the University for the relief of Chinese students, $547.16 being raised from undergraduates and members of the faculty.

THEATRE

This season, for the first time in the history of the theatre, there was no Director on the theatre staff. As a result no regular series of plays was presented nor was there a play entered in the Dominion Drama Festival. However, the entire technical and business staff was retained to keep the auditorium open for rental business. This was larger than in any previous year and twenty-three organisations not including university groups held productions in the theatre. For the second year in succession the University Drama Festival was held, the entries being more numerous and the entire festival more successful. The University College Dramatic Society once again won the award given by the President of the University. A series of lectures on the theatre was sponsored by the University Drama Committee. This was the first time that anything of this nature was attempted and proved to be very popular with the students. It is to be hoped that the years to come will find even more activities of a similar nature interesting the student body. This committee produced a play under the direction of Mr. Edgar Stone, the members of the cast being drawn from the various colleges and faculties in the University. The enthusiasm shown in this venture and the quality of the work would seem to guarantee its continuance. It is interesting to note that the following dramatic societies and faculties in the University made use of the theatre during the year: the University College Alumnae Association, L'Alliance Française, the Trinity College Dramatic Society, the University College French Club, the Victoria College Dramatic Society, the Medical Society, the Engineering Society, the University College Literary and Athletic Society, the Faculty of Dentistry Students' Parliament and the University Drama Committee.

VISITORS

Among the visitors to Hart House during the past twelve months were Miss Zoe Lavallin Puxley, Mr. Walter S. Allward, Mr. H. E. Wimperis, Miss Mary Trevelyan, Mr. R. B. Bennett (Rector of the Grammar School at Jedburgh, Scotland), Captain Griffiths Powell, Professor E. J. Dent, Professor K. H. Bailey, Dr. W. Bryden, Mr. Thomas Mann and Mr. F. Ashton-Gwatkin.

COMMITTEES AND STAFF

During the Warden's absence in the past year Hart House was specially fortunate in the President's appointment of Dr. H. Wasteneys as Chairman of the Board of Stewards. His long association with the House and its committees made Dr. Westeneys the ideal choice as Chairman of the Governing Body of the House. The new House Committee which is an amalgamation of the former House and Hall Committees performed their duties in an excellent manner and there is no doubt that the joining of these two committees is amply justified. Through their wise counsel in this their second year the Glee Club Committee have fully merited their status as a Special Committee of the House. It is keenly regretted that three senior members of th committees have found it necessary to resign this year—Professor T. F. McIlwrath from the Chairmanship of the House Committee, Professor A. F. W. Plumptre as a faculty member of the Debates Committee and Mr. A. B. Ward from the Chairmanship of the Graduate Committee. To these and indeed to all senior members of the committees Hart House owes a deep debt of gratitude for their valuable assistance in its affairs year by year.

The Warden's absence necessitated the temporary appointment to the staff of Mr. J. R. Johnson, a former secretary of the House, whose wide knowledge of the

House made his services invaluable. Hart House was fortunate also in being able to retain Mr. D. L. Emond as assistant secretary for another year. This spring Mr. J. A. Bartholomew, who has been superintendent of the dining hall department since 1932, resigned and has been succeeded by Miss Muriel Ransom, a graduate in Household Science in 1934.

The Acting Warden wishes to convey his sincere thanks to the President of the University and to the staff and the members of the committees of Hart House for their whole-hearted co-operation during the past year.

(22) REPORT OF THE DIRECTOR OF CONNAUGHT LABORATORIES

(*J. G. FitzGerald, M.D., LL.D.*)

This is the twenty-fourth annual report of the Director of Connaught Laboratories. It is a review of the work carried on during the year 1st July, 1937, to 30th June, 1938.

During a part of this time, in the absence of the Director, his responsibilities devolved upon Professor R. D. Defries and Professor C. H. Best, and grateful appreciation is here extended to them for generously assuming additional burdens and duties.

It has been a year of further progress and development. It is a fine tribute to my colleagues and associates that, despite a slight reduction in the numbers of the scientific staff, research and investigation have been prosecuted on a more extensive scale than in any previous year.

The fundamental purposes for which the Laboratories exist, namely, extension of the boundaries of knowledge in the broad field of preventive medicine, co-operation with public health agencies throughout the Dominion of Canada, the production and distribution of biological products, and the support and encouragement of postgraduate teaching in public health, have always been kept in view.

Reference has already been made in earlier reports to the Connaught Laboratories Fellowships in Public Health, made available each year to a certain number of medical graduates in the various provinces. Perhaps no other aspect of the work of the Laboratories has been more generally commended or widely appreciated than this. As a result of co-operation with federal and provincial public health authorities, the Laboratories continue to occupy an important place in the public health organisation of this country. Further consolidation of the mutually helpful and profitable co-operation with the University of British Columbia has been maintained. The Western Division under the guidance of Dr. C. E. Dolman has been most active in the prosecution of research. A review in greater detail of the work of the various sections of the Laboratories appears later in this report.

Staff Changes

During the year Dr. Geoffrey Rake resigned his position to take up an appointment in the United States.

Dr. J. S. Kitching resigned from the staff in February to undertake new duties in the Metropolitan Health Board of Vancouver. During the three years in which Dr. Kitching was a member of the staff he made substantial contributions in his special field of work and discharged his routine duties in a most satisfactory fashion.

Dr. F. O. Wishart, for several years past a research fellow working with Dr. James Craigie, has resigned to assume the duties of lecturer in hygiene and preventive medicine in this University.

Dr. M. Doreen Smith, a research assistant in Professor Moloney's section since the autumn of 1931, is leaving this year. It is a pleasure to record the high opinion in which Dr. Smith is held as a hard-working and conscientious investigator, and her services to Connaught Laboratories are gratefully acknowledged.

Dr. R. J. Gibbons, research assistant in Western Division, resigned to enter the service of the Department of Pensions and National Health as a Bacteriologist. Dr. Gibbons' services were warmly appreciated and are here acknowledged with gratitude.

Dr. K. K. Kay, first research assistant in industrial hygiene and more recently an assistant in the office of the Comptroller, has resigned to accept a fellowship in the Harvard School of Public Health.

During this period there have been many changes in the personnel of the Farm Section. These are set out hereunder.

John Fulton, resident engineer for seven and a half years, returned to Ireland in 1937. His position has been filled most satisfactorily by his first assistant, John Follansbee.

Gavin Martin, a most valuable technician, who had served in that capacity for six years, resigned in September, 1937, to enter the course in mechanical engineering in the Faculty of Applied Science and Engineering in the University of Toronto.

Edward Perkins, another most reliable technician, after eight years' service resigned to enter upon other activities.

Thomas Perry and Richard Aldom, who had a much shorter association with this institution, returned to their university courses which were interrupted during the depression.

Dr. Donald Heard, who had charge of oestrin research, resigned and accepted a position on the staff of the department of biochemistry, Dalhousie University, Halifax.

Dr. Arthur Charles transferred from the University to the Farm Section in the laboratory vacated by Dr. Heard in September, 1937, since when he has carried on his investigation in the production and purification of heparin.

The tragic death of Christopher Smith, one of the earliest members of the laboratory staff at the Farm, was deeply regretted by all who knew him. He had been employed for twenty-one years, and was accidentally killed while coming to work on the morning of 12th July, 1937.

Appointments

The appointment of Dr. Kenneth F. Brandon as a research assistant (part-time) in Western Division was made on 1st June. A former member of the staff of the School of Hygiene and for the past year a member of the staff of the Metropolitan Health Board of Vancouver, Dr. Brandon's appointment is a further step in the development of even closer relations with the University of British Columbia. In his new position he will also be a member of the staff of the University of British Columbia, and it is confidently believed that in addition he will find a useful field of service in epidemiology in the Metropolitan Health Board of Vancouver.

Section of Bacteriology and Immunology

In the section of bacteriology and immunology, under the general direction of Professor Donald Fraser, studies previously reported have been extended and new projects initiated. The study of the duration of antitoxic immunity in response to three doses of diphtheria toxoid in children has been in progress for a number of years. This research has been time-consuming and has entailed the co-ordination of efforts of Dr. Alan Young in the field as well as our own in the laboratory. It has been abundantly shown that for the purpose of this study the Schick test is inadequate, since the results so obtained are not quantitative and thus fail to reveal the changes in antitoxin level in the children subsequent to immunisation. In addition, the Shick test itself acts as an antigenic stimulus, which fact alone precludes its use when spontaneous changes in antitoxin levels are being followed. Our results obtained subsequent to publication in 1937 indicate that of 107 children, given three doses of diphtheria toxoid two years previously, virtually all have shown a drop in antitoxin level from that attained at three or six months after immunisation: nine had less than 1/100 units; non however have completely lost their antitoxin. Of the total of 244 children whose blood has been titrated at any interval of time subsequent to immunisation, three only have shown no detectable antitoxin ($<1/500$ unit) following three doses of toxoid. It is anticipated that when the group of children tested at the four-year interval is completed, more will have lost their antitoxic immunity.

Dr. FitzGerald carried out a study to determine the effect of repeated Schick tests on persons with no demonstrable antitoxin ($<1/1000$ unit) in their blood serum. The Schick test, with an antitoxin titration previous to performing the test, has been done at four-week intervals. In all six Schick tests and seven titrations have been done on each person. There has been no evidence of antitoxic response. One additional individual, in contrast with the above group, with an initial titre of $> 1/1000 < 1/500$ unit, showed an increase in antitoxin one month after the Schick test alone. The antitoxic response to this small antigenic stimulus was strikingly great, namely three-quarters of a unit.

With the co-operation of Dr. Beverley Hannah of the Riverdale Isolation Hospital, diptheria antitoxin assays have been carried out on sera from persons admitted as diphtheria cases, carriers and suspected diphtheria. Cultures from those persons have also been examined, and correlated with the antitoxin titre of the serum. In some instances the results have been of assistance in arriving at the final diagnosis.

In co-operation with Dr. Grant Fleming, McGill University, Montreal, titrations have been done on the sera of children who have been immunised some years previously. Blood samples were obtained at the time of Schick testing. Serum samples from 49 originally Schick positive children, drawn three months after the administration of alum precipitated toxoid, were titrated. The numbers in each group were small, but the results indicated that two doses of 0.5 cc. amounts were better than one dose of 0.5 cc. or of 1 cc. alum precipitated toxoid.

Dr. Ruth Dow, Alexandra Hospital, Montreal, has been co-operating by sending sera from patients diagnosed as diphtheria and from carriers. Titrations have been compared with the results of examination.

The diphtheria carrier survey of school children in Toronto has been continued in co-operation with the Department of Public Health, City of Toronto. Of approximately 1400 cultures taken in 1938 none were found to be virulent. Routine cultures have been isolated from cases and carriers from the Riverdale Isolation Hospital and from the Hospital for Sick Children. They have been tested for virulence and carbohydrate reactions and dried and added to the collection of diphtheria cultures.

Dr. Brown has carried out an investigation on the use of the Tuberculin Patch Test. In the preliminary trials it is evident that the test is specific. Thus of 382 persons positive to tuberculin as shown by the intracutaneous (Mantoux) test a reaction was not noted with the patch test in any person who failed to react to a Mantoux test. It appears that the patch test is as sensitive as 0.01 mg. of old tuberculin intracutaneously administered and only slightly less sensitive than 0.05 mg. Various modifications of the patch test are being tried in order to obtain data on the most suitable form of application. Dr. Brown is continuing his studies of the pneumococcus with particular reference to the production of rabbit serum for clinical use and the typing of strains. The study of seven groups of the typhoid bacillus as delimited by Dr. James Craigie with bacteriophage has recently been undertaken. The keeping qualities of typhoid vaccine under varying conditions is being followed. The typing of 500 strains of the tubercle bacillus isolated by Dr. A. L. MacNabb of the Department of Health, Ontario, has shown that the incidence of bovine tuberculosis in man is low in this province. The investigation and typing of salmonella strains isolated in Canada is being continued.

Dr. Frieda Fraser and Dr. D. L. MacLean have investigated the use of the tannic acid precipitate of scarlet fever toxin kindly furnished by Dr. M. V. Veldee of the National Institute of Health, Washington. The investigation of the virulence and immunity against different strains of haemolytic streptococci in certain laboratory animals is being continued. Dr. Helen Plummer has compared a strain of haemolytic streptococcus with the well-known N.Y. 5 strain to determine whether the former may advantageously be substituted for the latter in the routine production of antitoxin. Of 161 stoxigenic strains of haemolytic streptococci, 87 per cent. were distributed throughout 22 agglutinative types. Of approximately 500 strains of Group A haemolytic streptococci 93 per cent. have been placed in one or other of 22 types by Griffith's slide agglutination test. It is suggested that this test is of practical use in epidemiological investigations. Dr. Plummer has been pursuing the investigation of certain of the anaerobes.

Dr. Ronald Hare, with the assistance of Dr. C. H. Yen of Peiping, has made a detailed study of three of the eight strains of influenza virus isolated in 1937 in Toronto. These three strains were the only ones which were successfully adapted to mice. Based upon preliminary investigation it would seem that, upon antigenic analysis, the Toronto strains are alike and closely resemble the New York strains whereas there is an apparent different between the Toronto strains and those isolated in 1933 in London and in 1934 in Porto Rico. The response in complement fixing and virus neutralizing antibodies in human beings have been studied during an epidemic in cases and contacts. Active immunization of mice has been successful with both living and formalin killed cultures and studies are directed to determine the antigenic value of different strains, living and inactivated virus, and the best methods of inactivation and preservation of the vaccines. Experimental infection in mice has been treated with convalescent serum from ferrets, also from other experimental animals and man whose sera possess a high titre in neutralizing the experimental infection in mice. In collaboration with Dr. Hurst Brown and Dr. Feasby of the Western Hospital 100 nurses are being kept under close clinical supervision and all cases of respiratory tract infection are being investigated clinically and bacteriologically in an attempt to establish methods of accurate diagnosis of these conditions.

During the year the investigation of meningococcus carrier rates in contact and non-contact groups of individuals has been continued by Dr. Silverthorne. The strains of meningococcus isolated from these groups have been studied in respect of their virulence and type distribution. All of the contact carrier strains have been shown to possess fairly high degrees of virulence for mice in contrast to the majority of non-contact carrier strains which are avirulent. The strains from both groups have been found to be largely Type II. Clinical studies of meningococcic meningitis have been pursued and the bactericidal properties of serum investigated.

The production of a dried bactericidal guinea-pig serum using freshly isolated meningeal strains of H. influenzae has been continued. This serum which is high in complement value, has been used with anti-influenzal horse serum in the treatment of cases of influenzal meningitis with a few gratifying results. Strains of H. influenzae isolated from the spinal fluid of cases of meningitis have been subjected to bacteriological investigation. The typing and virulence tests on these strains have revealed that they are a homologous series and that for the most part are virulent in mice.

The studies on whooping cough by Dr. Silverthorne have been extended. The use of duplicate cough plate cultures in the bacteriological diagnosis of the disease in its early stages has been found to be most reliable. Our studies on active immunization of children using a freshly isolated strain pertussis vaccine have shown that children may be successfully immunized, as compared with an unvaccinated group of controls. The results are promising and the trial is being continued and extended. During the past year a satisfactory lethal test has been developed by producing a fatal septicaemia with H. pertussis in a high percentage of mice. Pertussis vaccines used in the prevention and treatment of whooping cough have been tested for their protective value by inoculating previously vaccinated mice with freshly isolated strains of H. pertussis suspended in mucin. This test would seem to be of practical value in the laboratory control of the antigenicity of pertussis vaccines.

Dr. J. S. Kitching and Dr. Leone Farrell have contributed two papers (published in the Journal of Immunology) dealing with the stability, antigenicity of staphylococcus toxoid and with alum toxoid respectively. Other studies in this field dealt with the rate of absorption and excretion of staphylococcus antitoxin; changes in antitoxin following infection in animals and in collaboration with Dr. Wm. Keith, Hospital for Sick Children, in children; staphylococcus antitoxin content of age groups; toxigenicity of strains of staphylococcus and an analysis of their toxins. Mr. R. J. Wilson has investigated a number of strains of staphylococcus from a food-poisoning outbreak. He was able to show the identity of cultures obtained from cases, from food handlers in a bakery and from the incriminated food.

Section of Chemistry in Relation to Hygiene

Under the direction of Dr. P. J. Moloney the routine production of diphtheria toxoid and Schick test toxin has been carried on as in previous years. Certain changes have been made in the procedure of assaying the toxoid for antigenicity and toxicity. This work has been concentrated in a period of the year in which experience has shown that there is the least likelihood of failure in satisfactorily completing the requisite test of the product.

Investigations carried on by Professor Moloney and Mr. M. D. Orr have been concerned with the following:—

1. The stability of purified diphtheria toxoid.
Very interesting results have already been obtained in the study of the stability of purified diphtheria toxoid, but there would not seem to be at the present time sufficient evidence to warrant the adoption of a method to purify toxoid for general distribution.

2. Further studies of the use of amine precipitated toxoid.
Inconsistencies have been encountered in the antigenicity of amine precipitated toxoid but thus far the precise reasons for them have not been discovered.

3. The reactivity for various diphtheria prophylactics.
This study has been carried to the point where a publication of results seems desirable. A brief summary of the report indicates that "of all the diphtheria prophylactics only toxoid-antitoxin floccules and certain of our amine precipitated toxoids show a lowered reactivity, as judged by either skin reaction or anaphylaxis on guinea pigs highly sensitized to diphtheria toxoid. Moreover, it was shown clearly for toxoid-antitoxin floccules that the lowered reactivity was not due to purity of the toxoid associated with the floccules, but was more likely due to insolubility or slow dissociation of the floccules in the body fluids."

4. The purification of tetanus toxoid: its stability and the possible use of amine precipitated tetanus toxoid.

Dr. Edith M. Taylor has during the year investigated methods for the removal of iron in hog's stomach autolysate-maltose medium which is used for the production of diphtheria toxin. It would appear that iron occurs naturally in both the autolysate and the maltose. Dr. Taylor's results may be summarised as follows:—

1. Broth for diphtheria toxin production prepared from hogs' stomachs may be sterilised by autoclaving rather than by Seitz filtration without impairing toxin production. It is now apparent that failure to reduce the iron content of the autolysate to suitable concentration prior to autoclaving has been responsible heretofore for the difference in results obtained by the two methods of sterilisation.

2. In order to produce toxin of high potency, iron must be removed from the broth. This has been accomplished by treatment of the broth with infusorial earth.

3. Maltose suitable for diphtheria toxin production has been prepared by a simple and inexpensive method from corn starch.

Dr. M. Doreen Smith, in collaboration with Dr. Joseph Daly and Professor Moloney, has completed a study of the detoxifying action of human bile on diphtheria toxin. It was found that certain samples of human bile possess a heat-labile detoxifying activity similar to that of ox bile, and that the activity is not due to diptheria antitoxin. Further it was shown that the heat-labile component of this detoxifying system may be replaced by the heat-labile component of ox bile, which alone is inactive. Dr. Smith has also succeeded in improving the method of separating the labile components of the detoxifying system and similarly has effected an improvement in the method of testing bile.

Section of Filterable Viruses, Epidemiology, and Biometrics

In the section of filterable viruses, epidemiology, and biometrics a series of interesting studies in virus diseases has been conducted under the direction of Professor R. D. Defries.

Dr. James Craigie and Dr. F. O. Wishart have continued their study of the serology and immunology of vaccine and smallpox viruses. The lability of the immunising fraction of the complex antigen of vaccine virus has been further demonstrated by an examination of the ability of the virus or soluble antigens to combine with neutralising antibody. It has been confirmed that a gross and variable multiple of the amount of virus required to absorb specific agglutinins and precipitins is required to remove neutralising antibody from vaccine-immune serum. The amount of virus required to absorb a given quantity of neutralizing antibody varies from 1,000 to 100,000th of the amount of virus neutralised by the same quantity of neutralising antibody. Further studies are in progress to elucide this apparent paradox. The investigation has been facilitated by technical advances in the preparation of the large quantities of pure suspensions of vaccine virus necessary for absorption tests. It has been found possible to obtain yields of 10^{11} virus particles from a single rabbit under favourable circumstances. Further improvements in the application of *in vitro* serological tests to the study of vaccine virus have been effected as a result of the study of the influence of the concentration of various electrolytes and of pH on the agglutination and precipitin reactions. For example, the optimal concentration of NaCl for these reactions with vaccine virus has been found to be 1/10 to 1/20 that generally employed in serological reactions. Following a study of vaccinia-infected cells by dark-field observation, ultraviolet photography, and fluorescent microscopy, Dr. Craigie has evolved a staining method whereby the virus of the infected process can be studied in fixed tissue sections. This method permits a much more rapid and extensive examination of infected tissue than has hitherto been possible.

Dr. Craigie has carried out a special study of human blood samples obtained in the pre-paralytic stage of poliomyelitis. These samples were fractionated to exclude the possibility of the making of circulating virus by neutralising antibody. The negative results obtained even after fractionation of the blood confirm the observations of others that the virus of poliomyelitis does not occur in the blood in any significant amount.

Dr. Craigie and Dr. C. H. Yen have continued their investigation of phages whose range of activity is limited to the V or virulent form of *B. typhosus*. They have made a special study of Type II typhoid phage which they had previously found to exhibit a high specificity for the type of strain of *B. typhosus* on which it was propagated. The reactions of some 500 strains of *B. typhosus* to various Type II phage preparations have been studied by special methods elaborated for this purpose. It has been found that by "phage typing" V form strains of *B. typhosus* can be classified into seven main groups and that the results thus obtained show remarkable correlation with epidemiological data. Although surpassing in sensitivity the usual fermentative and serological tests, and permitting a differentiation of strains of *B. typhosus* unobtainable by these methods, the phage-typing method yields results of absolute consistency. The types of *B. typhosus* thus determined appear to remain fixed on human or mouse transfer. The examination of strains obtained from England show that the same seven types occur in England as well as in various parts of Canada. The type of *B. typhosus* isolated from a case or carrier has been found to be identical with the type occurring in the individual whom he has infected. Outbreaks and epidemics due to each of the seven types ot *B. typhosus* have been observed and all, with one exception, have been single-type epidemics. This exception was one in which two different types were recognised in samples of suspected water. The methods which have been elaborated in this study not only provide a new and useful tool for the epidemiological study of typhoid fever but also provide a basis for a serological re-investigation of *B. typhosus* and the possible development of improvements in the specific prophylaxis and treatment of this disease. Another aspect of this study deals with problems concerning the nature and behaviour of typhoid phages as problems in the virus field. Concerning the behaviour of Type II phage, the only satisfactory hypothesis which can be put forward to explain the observed phenomenon is that Type II phage exhibits a regular "mutation" rate and that the various "mutants" of this type of phage are capable of attacking only one of the observed types of *B. typhosus.* The subjects of mutation and cell specificity of viruses are both significant problems in the field of virus research and the investigation is being continued in this direction.

Dr. Defries has continued his studies of rabies virus. confirming the observation that rabbits which have received rabies vaccine by intraperitoneal injection become highly resistant to rabies, even when the virus is inoculated intracerebrally. These studies have shown that a similar immunity can be developed if large doses of vaccine are administered intramuscularly. Practical use has been made of these observations in providing a method to determine the protective value of various preparations of rabies vaccine. It has permitted also the obtaining of definite information concerning the deterioration of vaccine when stored, the effect of temperatures, and the action of various chemicals.

In studying rabies virus, several methods of tissue culture have been studied and observations made of several strains of virus. Successful cultivation of the virus according to the method of Webster has been conducted and one strain has been carried through 28 culture-passages. The successful cultivation of the virus permits of study of its antigens and affords the possibility of an improved type of rabies vaccine. For the past two years rabies vaccine for veterinary use has been supplied to the Government of Trinidad for use in controlling a serious outbreak of rabies among cattle. The supplying of the vaccine has permitted the obtaining of interesting data and the study of a strain of virus from Trinidad.

The occurrence of a severe outbreak of poliomyelitis in certain sections of Ontario, including Toronto, afforded the department the opportunity to conduct several studies. Data were obtained by Dr. J. S. Kitching concerning 500 children, examined at the clinics and not considered to be suffering from poliomyelitis. Subsequent inquiry concerning 335 of these children showed that in only two instances had paralytic symptoms developed. Reference has also been made to the study of Dr. Craigie of blood samples from suspected and known cases of poliomyelitis. An investigation of cerebrospinal fluid from early cases was made by Dr. N. E. McKinnon, with negative findings. The virus of lymphocytic choriomeningitis, also, was not found.

Through funds made available by the Department of Health, Ontario, a field study was conducted to determine the possible value of a prophylactic nasal spray, consisting of one per cent. zinc sulphate, one per cent. pontocaine, and one-half per cent. of sodium chloride. The observations were made possible through the cooperation of the Hospital for Sick Children and the Department of Public Health of the City of Toronto. A total of 4,713 children received two sprayings, an interval of ten days elapsing between the sprayings. A statistical analysis of the results, with the study of a suitable control group, indicated that the nasal spraying, as conducted, had no protective value and further that it could not be considered a practical public health procedure.

Dr. Mary Ross made a detailed analysis of the data concerning a survey of Schick testing conducted in Toronto by Dr. Alan Young and Dr. D. T. Fraser, involving the study of 7,668 Schick tests. A similar analysis was made by Dr. Ross for Dr. Grant Fleming and Dr. B. Benjamin, of Montreal, concerning a group of 1,536 Schick tests. The Department has continued to collaborate with the Department of Public Health of Toronto in the analysis of data concerning children receiving diphtheria toxoid in Toronto. A study was made of the records for the year 1935-6-7, as relating to 40,000 children who received three doses of toxoid. Records are now available concerning more than 150,000 children who have received diphtheria toxoid in Toronto, thus making possible observations of great value in the determination of the effectiveness of diphtheria toxoid in the prevention of diphtheria. Of this number, 119,443 received three doses. Dr. McKinnon has continued his investigation with Dr. Ross of the trends of the mortality from heart disease and cancer. Through the co-operation of a group of representative hospitals, Dr. A. H. Sellers has obtained records of foetal deaths in which autopsies had been made. As a result of this study, recommendations of a suitable classification of the causes of stillbirths have been published. Dr. Defries and Dr. Sellers have prepared a revision of the classification of the causes of morbidity for use in Canada. This work was undertaken in collaboration with the Department of Pensions and National Health, and the Dominion Bureau of Statistics.

Section relating to Hormones, Vitamins, and other Physiological Substances
(under the direction of Professor C. H. Best)

The effect of heparin on thrombosis of the coronary arteries produced in dogs by the injection of sodium ricinoleate into the lumen of the vessel has been studied by Dr. Best and Dr. Solandt. In the animals which did not receive heparin, thrombosis of the main artery or its branches was consistently observed. In the heparinised animals the incidence of thrombus formation was greatly reduced. Dr. D. L. MacLean carried out the extensive histological studies which formed an important part of this investigation. Mr. L. Jaques in cooperation with Dr. Best has extended the researches on the methods of administration of heparin. Dr. William Thalhimer of New York and Dr. Solandt and Dr. Best have studied the effect of the so-called "exchange transfusions" on the nitrogen retention of nephrectomised dogs. Using a special pump with which 16 litres of blood per hour may be exchanged in each direction between the normal and nephrectomised animals, it has been found that the excess urea may be rapidly excreted by the kidneys of the normal animal.

One phase of the work utilising deuterium-containing fats has been completed by Dr. H. M. Barrett, Miss Ridout and Dr. Best. The sources of the excess fat accumulating in the liver under many different conditions have been determined. Miss Ridout and Dr. Best have continued their work on choline and liver fat. Papers on "Undernutrition and Liver Fat" and "The Relative Potency of Various Factors Affecting Deposition of Fat in the Liver" are in press.

During the past year much of Dr. Scott and Dr. Fisher's time has been spent on new arrangements for the extraction, purification and testing of insulin. Recently the Connaught Laboratories have made regular use of frozen as well as fresh pancreas for the extraction of the hormone. Investigations on the various stages of the purification of this hormone have been continued and these have resulted in the development of a process which is more economical in time and materials than that formerly employed. As a result of the year's work four papers are now ready for publication, namely, "Studies on the Pancreas and Liver of Normal and Zinc-Fed Cats,.' "The Ash Content of Nickel-Insulin Crystals", "The Insulin and the Zinc Content of Normal and Diabetic Pancreas" and "The Preparation of Insulin". Steps have been taken to prepare a quantity of zinc-insulin crystals and make a solution of these available for general clinical trial.

A new process for the preparation of a purified concentrated solution for intramuscular injection has been developed by Dr. E. W. McHenry. The procedure eliminates 90 per cent. of the impurities present in extracts prepared by former procedures and gives a solution effective in small dosage. Clinical testing has been made possible by the very helpful co-operation of members of the staffs of the Toronto General and Western Hospitals. During the development of the new procedure a study has been made of the properties of the anti-anaemic factor. Mr. D. W. Overend has determined the free amino-acids present in an active liver fraction. Sufficient information is now available to characterise the factor as a proteose.

Dr. G. A. McVicar has examined several tissues for the possible presence of the cortical hormone and has found it to be absent from foetal adrenal tissue, adult kidneys and ovaries. He is continuing an investigation of the rôle of histamine in adrenal insufficiency.

In connection with a study of food consumption by low-income families, Dr. McHenry and several members of his laboratory are co-operating with the committee in charge of the survey. Miss Gavin and Miss Barber have been responsible for the laborious calculations of food values.

Dr. McHenry and Miss Gavin began last fall an investigation of the relation of several of the B-vitamins to fat metabolism. They have secured evidence in rats and in pigeons that vitamin B^1 causes fat synthesis from carbohydrate. This vitamin, riboflavin, and vitamin B^6 have complementary effects upon body weight in young rats; the increase in weight is partially due to an increase in body fat presumably synthesised from carbohydrate.

Mr. E. J. Reedman continued his study of vitamin C under Dr. McHenry's direction until January 1 when he left to accept a position in the United States. He has secured evidence of the existence of a protein-ascorbic acid complex in certain tissues. Repetition of the work of Szent-Györgyi on vitamin P gave inconclusive results although there is some evidence that such a factor exists. In paired feeding experiments Mr. Reedman found that ascorbic acid caused the weight of guinea-pigs to be greater than in the control, deficient group. Since Mr. Reedman's departure, the work on vitamin C has been continued by Miss Margaret Sheppard. She has amply confirmed the effect of ascorbic acid in paired feeding experiments and, in collaboration with Dr. Fidlar of the Department of Physiology, has shown that the difference in weight is due to alterations in metabolism. The oxygen consumption of C-deficient guinea-pigs is markedly greater than that of animals receiving the vitamin with the same amount of food. Using the paired feeding technique, Miss Sheppard and Dr. McHenry are studying various effects previously attributed to vitamin C deficiency to determine whether these are caused by vitamin deficiency or by inanition. Indebtedness is gratefully expressed to the Banting Research Foundation for generous grants to Mr. Reedman and Miss Sheppard.

Mr. Philip Bouthillier of the University of Montreal was a guest in the department from April 4 to May 19. In collaboration with Dr. McHenry and Miss Sheppard he studied the estimation of ascorbic acid in urine.

Dr. McHenry's expert collaboration with members of the Scientific Advisory Committee on Nutrition in the construction of a Canadian dietary standard and a report on methods for dietary surveys has been of great assistance in these projects.

The results of an investigation of the radiation factor in the heating of Canadian homes has been published by Dr. Partridge and Dr. MacLean. In this study information regarding all the factors—temperature, air movement, humidity, and radiation—was obtained from dwellings in Toronto and in the rural area. The findings were expressed in terms of effective temperature, equivalent temperature and equivalent warmth. The data for Canadian homes were compared with the values for comfort in English dwellings. The amount of heat loss of a subject by radiation and convection under the ventilation conditions which apply in Canadian houses had been calculated.

Dr. Partridge has continued to use the high gain amplifier to study the function of the various fibres of the vagus nerve and has shown that cardiac depressor fibres may be identified in certain pulmonary branches of the vagus and that these fibres may act to hasten breathing. Dr. Partridge has another series of experiments in progress which are designed to study the effect on cats of a diet deficient in vitamin B^1. The study has particular reference to the cardiac changes and the effect of this diet on the nerves of the heart. Amplified records are being made to show the effect of vitamin B^1 deficiency on nerve impulses which have been discovered in a pressor branch of the vagus arising in the right auricle.

In the section of industrial hygiene, Dr. Barrett, in collaboration with Dr. MacLean and Dr. McHenry, secured data which confirmed Forbes, Neale and Scherer's observations of the protective action of xanthine in carbon tetrachloride poisoning.

Dr. Barrett and Mr. J. H. Johnston have continued the work on the fate of trichlorethylene in the body. It has been shown definitely that trichlorethylene conjugates in the body in such a way that the steam distillate of urine from animals that have been exposed to trichlorethylene vapour contains chloroform. Some progress has been made in isolating the conjugated material.

A new reaction for the identification of carbon tetrachloride has been discovered. The reaction is being used in developing a method for the quantitative determination of carbon tetrachloride in air.

Farm Section (under the direction of Dr. N. E. McKinnon)

As in previous years the Farm Section has been responsible for the production of various biological products, namely. diphtheria. tetanus. scarlet fever. perfringens and staphylococcus antitoxins, anti-meningococcus and anti-pneumococcus sera, diphtheria toxoid, smallpox vaccine and rabies vaccine. In addition certain experimental sera, including anti-dysentery, anti-B. influenzae and anti-influenza virus, have been prepared.

Distinct improvements in the production of anti-pneumococcus serum have been effected. During the past year very considerable quantities of rabbit anti-pneumococcus sera (types I, II, V, VII, VIII) have been prepared. Therapeutic trials of certain of these sera have been made under the direction of Professor Duncan Graham at the Toronto General Hospital, and in certain other medical clinics. The results thus far obtained suggest that rabbit anti-pneumococcus serum as presently prepared can be given to patients without producing any immediate reaction.

The flocculation test is now used for the preliminary testing of the titre of scarlet fever antitoxin with satisfactory results. The large-scale production of rabies vaccine has been continued. The preparation of heparin is now being carried on under the direction of Dr. Arthur Charles. Greatly improved yields of the material are now being obtained. There is at present great interest in the use of heparin clinically. The recovery of volatile solvents has been carried on, on an even greater scale than in previous years, in the special laboratory constructed for the purpose.

The guinea-pig, rat, mouse and ferret colonies have been maintained most satisfactorily. A very marked increase in the size of the guinea-pig, rat and mouse shipments has been recorded for the present year.

Investigation of various problems closely related to production has been undertaken in the past year.

Dr. Cameron has overcome some of the difficulties encountered in his earlier attempts to repeat Rane's work on the flocculation of scarlet fever toxin and antitoxin; this procedure is now used to titrate "trial bleeds" and toxin.

Dr. Siebenmann has continued his study of the discoloration of silver foil in the cultures of certain bacteria. He has given considerable attention to investigation of meningococci, their virulence, the lethel potentialities of culture filtrates and their anti-genicity, the titration of anti-meningococcus serum, and the extraction of specific fractions of meningococci. His observations so far show that the filtrate from prolonged culture of meningococci in liquid medium is highly toxic and lethel for animals, including horses, when administered cisternally or intravenously, that it serves as an efficient antigen for the bacterial antibody but that it does not elicit any antibody which will protect against itself. This work is being carried further. Dr. Siebenmann has made a full chemical investigation of the new well water, its iron content and removal, its aggressiveness, etc., and has now undertaken a more complete chemical investigation of the problems associated with diphtheria toxin production.

Dr. French has studied certain aspects of the nature of antitoxin and toxin-antitoxin union. His obesrvations fail to substantiate the suggestion that refinement of antitoxin by peptic digestion yields antitoxin in purer state or in a smaller molecule than that achieved by other forms of purification. He has studied the fractionation and concentration of the pneumococcus protective antibody in both horse and rabbit immune serum. The complete solubility of the rabbit pneumococcus antibody in distilled water or in low salt concentrations is in marked contrast to the complete insolubility of the horse pneumococcus antibody. This offers the possibility of obtaining very high potency material, in other words a large dose in very small volume, from rabbit serum; an investigation of this possibility is under way. The results of various methods of concentration will be published in the near future. They show that a combination of sodium chloride and ammonium sulphate is superior to other agents.

The Library

Connaught Laboratories library, which each year is being added to, is accessible not only to members of the staff of the Laboratories but also to graduate and undergraduate students in the School of Hygiene, Faculty of Medicine, School of Nursing and other faculties and departments. Each year Miss Olga Somerville, the Librarian, has recorded an increased attendance of those desirous of availing themselves of the facilities of the library. The files of bound periodicals now numbering 2,425, and the collection of reprints and pamphlets, are particularly valuable for research workers and others interested in the original publications of many of the classical contributions in the fields of bacteriology, immunology, public health, vital statistics, physiology, biochemistry and epidemiology.

During the past year the library fortunately come into possession of a number of especially valuable reprints of early articles by Robert Koch. For these the Laboratories are indebted to the "Robert Koch Institute for Infectious Diseases" in Berlin. As in previous years the library is under obligation to the Canadian Public Health Journal for a number of current periodicals received in exchange by the Journal. Volume IX of the Studies from Connaught Laboratories appeared in February. It consisted of no less than fifty reprints of articles published during the year by members of the staff of the Laboratories.

The translation service carried on by Miss Pichler has been of great assistance to many members of the staff. The collection of translations has been catalogued according to the subjects for reprints, and many translations of earlier and much used papers have been revised and retyped. The bi-weekly indexes have been continued and are most helpful. Current periodicals are sent to the Farm section for the use of the staff, they remain there a brief period and are then replaced by the current numbers of the journals. In this way the library serves as a valuable unifying influence between the University and Farm sections of the Laboratories.

The products made available by the Laboratories were:—diphtheria, antitoxin, tetanus antitoxin, perfringens antitoxin, scarlet fever antitoxin, staphylococcus antitoxin, anti-meningococcus serum, anti-pneumococcus sera, antianthrax serum, diphtheria toxoid, staphylococcus toxoid, Schick-testing preparations, scarlet fever toxins, typhoid vaccines, pertussis vaccines, vaccine virus, rabies vaccines, old tuberculin, pneumococcus typing-sera, preparations of heparin, liver extracts, Insulin, Protamine Zinc Insulin, adrenal cortical extract, pituitary extract (posterior lobe), and epinephrine hydrochloride solutions.

Connaught Laboratories have been happy to receive, during the year, visitors from the following countries:—Canada (Alberta, British Columbia, Manitoba, Nova

Scotia, Ontario, Quebec and Saskatchewan); U.S.A. (California, Idaho, Illinois, Massachusetts, Missouri, New Jersey, New York and Tennessee); Belgium; Ceylon; China; England; France; India; Hungary; Jamaica; Japan; Korea; Panama; Roumania; Scotland; South Africa; Sweden; Yugoslavia.

Western Division (under the direction of Dr. C. E. Dolman)

On October 1st, 1938, the Western Division of Connaught Laboratories will have completed three years of operation, with quarters borrowed from the department of bacteriology and preventive medicine in the Science Building of the University of British Columbia. In this period it has created for itself a position of unique importance in the life of the University, of the medical profession, and of the public health services, of the Province. This position has been attained through rigid adherence to the pursuit of useful but disinterested researches in bacteriology, immunology, and epidemiology; through consultative advice freely given to practising physicians and surgeons, to the honorary medical staffs of hospitals, and to public health organisations; and through the prestige which undoubtedly accrues to the Western Division from its close affiliation with the University, and with the Provincial Board of Health, of British Columbia.

Staff.—The staff numbered five, as in previous years. Dr. C. E. Dolman, as research member of Connaught Laboratories, continued to give one-third of his time to supervising, and taking part in, the work of Western Division. In December, 1937, Dr. R. J. Gibbons accepted an appointment as chief bacteriologist to the Laboratory of Hygiene, Department of Pensions and National Health, Ottawa, and commenced his new duties on January 1st, 1938. This loss of so loyal and industrious a colleague was tempered by the satisfaction of knowing that his appointment to this important post was in no way hindered by the period of over two years spent as research assistant in the Western Division. In place of Dr. Gibbons, Dr. K. F. Brandon was appointed, commencing June 1st, 1938, as research assistant in Connaught Laboratories, attached to Western Division. Dr. Brandon will devote two-thirds of his time to research in bacteriology, immunology, and epidemiology, under Western Division auspices. For the remaining one-third of his time, Dr. Brandon will carry certain administrative duties as Epidemiologist to the Greater Vancouver Health Committee, and will also act as Director of the University of British Columbia Health Service.

The laboratory technicians, J. Polglase and V. Bjarnason, continued to give invaluable assistance throughout the year; while the other technician, M. McClellan, who left in May to join the Royal Canadian Air Force, after two years of most satisfactory service with us, has lately been replaced by F. Jefferies.

Research Work—Dr. Dolman has now completed the seventh year of research, under Connaught Laboratories' auspices, into the complex pathogenic and antigenic properties of staphylococcus toxins. During the year under review, the kitten test for staphylococcus enterotoxin, first developed in Western Division, appears to have achieved general recognition as the best available method for detecting this substance. In collaboration with Mr. R. J. Wilson, who held tenure until September 30th, 1937, of a much-appreciated grant from the Banting Research Foundation, Dr. Dolman published the results of further work on the enterotoxin. Evidence bearing on the specific antigenic nature of the enterotoxin was presented, based upon animal experiments, and also upon flocculation reactions in which absorbed reagents were used.

Considerable work has been done upon the mehanism underlying the hot-cold lysis of sheep cells by certain staphylococcus filtrates, a phenomenon which has been attributed to the *B* toxin of staphylococci. Some highly interesting observations have been made regarding the action upon both rabbit and sheep red cell suspensions of staphylococcal filtrates containing a mixture of the *a* and *B* toxins. The important fact appears to have emerged that sheep erythrocytes which have been acted upon by the *B* toxin are rendered to some extent resistant to the action of *a* toxin, and vice versa. The bearing of these findings upon the haemolytic effects which develop around certain strains of staphylococci growing on blood agar plates has been investigated. The results of this work on the haemolysins, as well as of the work on the enterotoxin, were presented in preliminary form at the Christmas meeting of the Laboratory Section of the Canadian Public Health Association in Toronto. Arising out of these presentations, requests have been received from centres all over the world for strains of staphylococci having characteristics therein described.

Staphylococcus antitoxin and toxoid continue to be used in the Province with marked success under appropriate circumstances. The close contact and happy relations which Dr. Dolman has been able to maintain with doctors in charge of cases of severe staphylococcal infection at both the large hospitals has led to some remarkable recoveries from staphylococcal blood stream infection, which it is hoped may later be published in collaboration with the doctors concerned. Dr. J. R. Naden in particular, of the Vancouver General Hospital visiting staff, has demonstrated a keen appreciation of the principles involved in staphylococcus antitoxin therapy. In three or four instances, over a million units of staphylococcus antitoxin have been administered by the intramuscular route. In one recent case, a young girl desperately ill with a septicaemia received about four million units of staphylococcus antitoxin, and eventually made a recovery which could not possibly have been anticipated in the absence of serum therapy. Dr. Naden has gallantly supported the cost of such treatment entailed to the hospital concerned, by the irrefutable argument that the value of a human life saved cannot be measured in terms of dollars spent upon a specific biological product.

In addition to the work on staphylococcus, Dr. Dolman has been very much concerned during the past year with the problem of *Brucella abortus* infection. In collaboration with the staff of the Provincial Board of Health Laboratories, and with graduate students of the department of bacteriology and preventive medicine, important facts bearing upon the Brucellosis situation in and around Vancouver have been discovered. These findings were also presented, in collaboration with Miss V. Hudson, at the Laboratory Section meeting of the Canadian Public Health Association, and have since been published in the "Journal." These findings have lent great weight to the campaign which we have continued to press for the compulsory pasteurisation of all milk sold in Vancouver.

Prior to his resignation from the staff of Connaught Laboratories, Dr. Gibbons completed a valuable trial of the relative merits of the old microscopic smear method and of the new cultural method of determining residual or doubtful gonococcal infection. His findings, which were presented at the Annual Meeting of the Canadian Public Health Association in Ottawa in June, 1937, were published in the "Journal" during the year under review. As a result of his work, the Provincial Board of Health Laboratories decided to make facilities available to the Division of Venereal Disease Control of the Provincial Board of Health for gonococcus culture in suitably selected cases. The technique has proved a most valuable addition to public health diagnostic laboratory methods. This fittingly illustrates what has been pointed out in previous reports—the practical advantages of coordinated activities in the broad field of preventive medicine to all the participating organisations.

Since commencing duties in Western Division, Dr. Brandon has started promising researches into two main fields; first, the epidemiology and bacteriology of typhoid fever, with special reference to the applicability of Dr. Craigie's method of grouping by use of specific Vi phages; and secondly, the epidemiology, bacteriology, and immunology of scarlet fever. This latter disease is always present in Vancouver. The specific biological agents available for its treatment and prophylaxis have not been properly and adequately used by local physicians and institutions, and there are many controversial points in the field of public health administration which have arisen around the problem of the control of scarlet fever. It is believed that useful results, both direct and indirect, would accrue from Dr. Brandon's researches in this field. His position as City Epidemiologist will, of course, facilitate his tracing of the clinical aspects of the problem which he pursues to conclusion in the laboratory, while the Provincial Laboratories will prove a valuable source of strains of typhoid bacilli and of haemolytic streptococci for his investigations.

In conclusion, it may be pointed out that the Western Division, as it exists at present, is still gravely handicapped through lack of accommodation, while any possibility of future expansion of its activities must be contingent upon more space becoming available. The prestige which Connaught Laboratories holds in the eyes of the University of British Columbia authorities, of public health officials, and of the medical profession in this Province, was never higher, and has unquestionably been enhanced since the establishment of the Western Division. If the opinion of any representative of the foregoing groups were asked, there could be no doubt of their emphatic endorsement of the establishment of the Western Division, and of their desire that it should prosper and expand.

The Director is indebted to the members of the Connaught Laboratories Committee of the Board of Governors for continued support throughout the year; and to his colleagues and to the members of the staff of the Laboratories generally, he is greatly indebted for their collaboration and assistance.

(23) STATEMENT REGARDING THE MUSEUM OF ARCHAEOLOGY

(*Professor C. T. Currelly*)

During the year 1937-38, the steady growth of the Museum collections continued.

Ninety-one donors presented a large number of objects. Many of these were of very considerable artistic and monetary value; others, while lacking intrinsic value, had distinct importance in relation to objects already in the Museum collections.

Perhaps the most outstanding acquisitions were in the field of European scultpure. Following the 13th century Spanish Madonna and Child reported last year, we obtained three other extremely important pieces, one 12th century Spanish, one 13th to 14th century French, the third 16th century French. One of the interesting Nottingham alabaster carvings of the 14th century, a "Coronation of the Virgin," was also received. Another addition of the highest importance was a carved oak reredos, Flemish work of the 16th century. A masterly piece of carving, it embodies all the chief features of late Gothic art, and is therefore a marvellous teaching piece.

The Egypt Exploration Society as usual sent us some of its finds of the previous season's excavations, in recognition of Sir Robert Mond's contribution to its work; these consisted of thirty-nine objects from Sesebi, Nubia. University College, London, also presented over a hundred Egyptian weights, through the kindness of Professor S. R. K. Glanville.

A few pieces of metalwork were obtained, the best of which were a French-Canadian silver chalice of the early 19th century, a Sheffield plate dish-ring, and three pieces of pewter. A church desk of fine design and workmanship and a comb-back Windsor chair were added to the French-Canadian room.

In the department of European ceramics, especially interesting accessions were a beautiful 17th century pottery plate made at Nevers and an early Sevres soft-paste cup and saucer. A dozen pieces of English porcelain included Worcester, Spode, Rockingham and Swansea wares.

Great good fortune attended the glass collection. During the preceding year we had been offered a rare opportunity to acquire a large collection of the finest Irish and English glass of the 18th and 19th centuries. When this collection, nearly three hundred pieces, was put on view, Mrs. R. Y. Eaton very generously paid for it. Through the gift of Lieut. Col. S. R. Heakes, nine more pieces of English and Irish glass of equally high quality were received.

Gifts to the textile department included several 19th and early 20th century dresses and hats, a lace-trimmed linen nightgown and paid of silk stockings worn by Queen Victoria, four pieces of lace, a late 18th century cope of French brocade, and two important Stuart needlework pictures in petit point and other stitches, presented through the kindness of Mrs. H. J. Cody.

One of the most exciting events of the year was our acquisition of a Japanese sutra printed about the year 770. By order of the Empress, a million of these charms were printed, encased in a million tiny wooden pagodas, and presented to a number of the temples. They are the earliest piece of printing known, and though numbers of them survive in Japanese temples. only half-a-dozen are in the possession of European and American museums. Other additions in the department of printing and the book were a work on anatomy from the press of Christopher Plantin, 1566, bound in beautifully tooled leather in 1567. a gift from the late Mr. T. D. M. Burnside; an illuminated manuscript on parchment; a leaf from a French 14th century antiphonary, with a beautifully illuminated miniature painting of the Resurrection; thirteen prints by contemporary Canadian and American artists; the copper-plate for the mezzotint portrait of General James Wolfe by R. Houston after Hervey Smith, the gift of Sir Robert Mond. The Post Office Department continued to deposit in the museum a specimen of each new issue of Canadian postage stamps; and a large number of stamps was received through the enthusiasm and energy of Mr. Paul Hahn.

An early bronze libation cup, a "Temmoku" pottery jar, a small iron-rust porcelain vase, and a number of lithographs were the only additions to the Chinese collection. Outstanding in the Japanese department was the acquisition of sixty drawings byHokusai. Other additions of special interest were twenty-two handsome brocades of the 18th and 19th centuries. seven silver vessels and seventeen pottery tea bowls and jars.

The Near Eastern collections were augmented by two 13th century Persian pottery bowls and three fine Persian miniatures. An interesting Indian miniature was also obtained; and a valued gift was a small plaster head from Afghanistan, illustrating the Graeco-Buddhist sculpture of the 2nd century.

In the ethnological department, a few pieces were acquired by purchase and a large number through the usual steady stream of gifts. The following stand out as specially important: an effigy stone pipe from Ontario; a red obsidian spearpoint from Saskatchewan; six masks and an exquisitely woven cedar basket from British Columbia; Eskimo material from King William Land and Victoria Land; a Nasca pot; a collection of Indo-Chinese material from Laos; a number of S'ora artifacts; and a collection of Central Australian material.

The work of the Museum carpenter shop was concentrated as much as possible on the making of mounts for the ethnological collections and the cabinets of pull-out drawers for the Northern American Indian Study Room, where many thousands of specimens have been arranged geographically. A good start was also made on the storage cupboards, for which the making of gallery cases and mounts had left no time since the reopening of the Museum.

Beside the regular cleaning and preservation of specimens, the preparator's department was able to carry out the special task of cleaning our hundred Paul Kane paintings, which seem to be used more each year in connection with the study of the Indians of Ontario and the West a century ago. A great deal of mounting was also carried out, mainly for the ethnological department.

Satisfactory progress was made in the printing of permanent labels. and in the accession catalogue and the pen-and-ink drawings for the scientific catalogues. Thanks to two new part-time appointments, we were able to give more help to Miss Home in the teaching of the constantly increasing number of groups of schoolchildren and adults who came to the Museum for instruction.

Publication of the Bulletin was resumed after a lapse of five years due to shortage of funds. No. 12 appeared in July. containing Dr. White's description of one of our great Chinese temple frescoes. The other two frescoes will be published in succeeding Bulletins.

Two exhibits of two cases each were arranged to take part in the Royal Ontario Museum's travelling loan exhibits. In the spring we again loaned a gallery for the annual exhibition of the Canadian Guild of Potters.

The two great highlights of the year were connected with the East Asiatic department. One was the opening of the Sigmund Samuel Gallery, housing the great Professor H. H. Mu Library of Chinese books. The other was the Rockefeller Foundation's presentation of a grant, to be paid over a five year period, for the development of teaching and research in Far Eastern subjects. Under the first year's grant, we have been singularly fortunate in securing the services of the Rev. J. M. Menzies, without a peer in his knowledge of early periods of Chinese archaeology.

A hope of many years has been realised in our start at scientific excavation. During the spring it became feasible to plan for two months' work on an Ontario Indian site; and at the beginning of July, a small group under the leadership of Dr. Nash will leave for Aylmer, where a promising site on the farm of Mr. John Pound has been kindly placed at our disposal. I trust that next year's report will announce finds of sufficient scientific interest to have made an auspicious start at what I hope may become a regular part of our year's work.

(24) STATEMENT REGARDING THE ROYAL ONTARIO MUSEUM OF ZOOLOGY

(*Professor J. R. Dymond*)

A new series of exhibits illustrating various biological principles constitute the most outstanding addition to our gallery during the year. The first three of these illustrate the role of the predator, pyramid of numbers and periodic fluctuations. The exhibit illustrating the economic value of Canada's fisheries has been reconstructed and made much more attractive. A series of enlarged models of small animals including house fly, grasshopper, spider and wood louse should prove of interest. Additions have also been made to the systematic collection of mammals, birds, reptiles, fish, etc.

Additions to the mammals mounted under the Reuben Wells Leonard bequest include grizzly bear, Stone's mountain (black) sheep and four outstanding specimens of the following breeds of dogs.—Saluki, beagle, and Kerry blue terrier.

During the year several temporary exhibits were arranged including work of Technical School are students done in the Museum, Australian shells, nature projects by children, wild-life photographs, aquarium show and tropical butterflies and moths.

The scientific collections shown steady growth as a result of field work, donations and incidental purchases to fill gaps in material obtained by other means. The number of specimens of the more important groups added during the year were as follows: mammals 1217, birds 2322, reptiles 100, amphibians 258, fish (lots) 1286, insects and spiders 11,530, molluscs and other invertebrates (lots) 4585.

Accessions to the library were 210 books and 3440 pamphlets. The library now contains 2204 books and 15,615 pamphlets.

Some of the more outstanding donations received during the year were:

Australian Museum, Sydney, Australia (through Miss H. Bain). Collection of 40 species of Australian shells.

Boggs, C. D., International Petroleum Company, Negritos, Peru. Collection of 234 bird skins and 4 sets of eggs from Peru.

Chant, Professor C. A., Richmond Hill, Ontario. Collection of 267 shells, representing 110 species collected in Australia and 1 shell rescued from the university fire of 1890.

Cook, Marshall A., Toronto, Ontario. Mounted sailfish.

Coventry, Professor A. F., Toronto, Ontario. Collection of 73 small mammals, 15 fish, 3 birds' nests and 2 snakes.

Hahn, Paul, Toronto, Ontario. Passenger Pigeon.

Kerr, Charles J., Hamilton, Ontario. 18 journals of his father and brother, John W. and Fred Kerr, Fisheries Inspectors of Hamilton, 1864-1898; 39 early reports of the Fisheries Department at Ottawa, 14 other government reports and 5 books.

Marsh, Rev. D. B., Eskimo Point, N.W.T. Skin, skull and antlers of a barren ground caribou, 9 fish, 10 birds and 115 insects.

MacGillivray, G. A., Toronto, Ontario. Diary of Chas. Fothergill.

McIlwraith, Estate of the late T. F., Hamilton, Ontario. 12 mounted birds including Passenger Pigeon, Mississippi Kite, and Eskimo Curlew.

National Parks Bureau, Ottawa, Ontario. One Grizzly Bear and skeleton.

Quentin, Rev. A. P., Toronto, Ontario. 130 skins of birds from West China.

Toronto Parks Department, Toronto, Ontario. 10 birds, 11 mammals, 9 reptiles, including 2 South American alligators, 2 gila monsters and black and green iguanas.

The Museum study of the fauna of Ontario is being continued through summer surveys in various parts of the province. Our area is in a particularly strategic position so far as certain zoogeographic problems are concerned.

The loan of material to other institutions for use in connection with their researches is increasing year by year. During the past year material has been loaned to the following: Carnegie Museum, Pittsburgh; Philadelphia Zoological Society; Philadelphia Academy of Natural Sciences; University of Minnesota; United States Bureau of Biological Survey; California Academy of Sciences; Dr. H. C. Oberholser.

The Museum is being called on more and more for the identification of material by a great variety of organisations and individuals. Following are some of those for whom material has been identified during the past year; Entomological Branch, Department of Agriculture, Ottawa; Fisheries Department, Ottawa; Dr. C. H. D. Clarke, National Parks Bureau, Ottawa; Dr. D. S. Rawson, University of Saskatchewan; R. A. McKenzies, Biological Board of Canada; Museum of Zoology, University of Michigan.

Through the cooperation of naturalists, sportsmen and other correspondents, the Museum is keeping an annual record of changes in the numbers of many kinds of animals. Such a record will be of increasing value in the future, in researches on animal population. During the past year 369 correspondents supplied such information. Of these 312 came from Ontario.

For the past two years various nature projects with children have been carried out at the Museum. Such projects are especially suited to the new Public School curriculum which emphasises activity on the part of the pupils. Exhibits of the results of these projects which have been held in our gallery have created much interest in this type of work and it is probable as a result that such natural history project work will find its way into the schools.

The number of persons seeking information is steadily increasing as is also the demand for the loan of lantern slides, and other forms of service offered by the Museum.

(25) STATEMENT REGARDING THE ROYAL ONTARIO MUSEUM OF GEOLOGY

(*Professor E. S. Moore*)

In addition to the regular work of the Museum, the staff participated in a number of public activities during the year. Three lectures were provided for the Tuesday afternoon series of lectures on Natural History: *The Origin and Decay of Mountains*, by the director, *The Romance of Silver*, by the assistant director, and *The History of the Porcupine Gold Camp*, by Professor G. B. Langford of the university staff. The Museum joined with the Museum of Mineralogy in providing an exhibit which has been displayed in some of the Ontario towns and cities. Several hundred young people, from various centres in the province, have been provided with instruction in geology in connection with excursions to Toronto.

The following additions have been made to the collections:

Donations: Mica from Pontiac country, Quebec, by Dr. E. W. Shaw. Tourmaline from an Ontario locality, by Mr. John Jacob.
Striated boulders of unusual type from Ohio, by Mr. K. R. Taylor.
Ripple marked sandstone from the Don Valley, by Dr. V. J. Okulitch.

Exchanges: One hundred typical British rocks, from City of Liverpool Free Public Museums, Dr. D. A. Allan, Director.

Purchases: Ores, concretions, petrified wood, meteorite, ornamental stones, and other specimens from eleven states in the United States, and from Mexico, Brazil, Bolivia, England, Germany, Czechoslovakia, Roumania, Siberia, Australia, New Zealand and South Africa.
Books for the Museum library.

Collections: Collections of rocks and ores were made by the Director in western Ontario and Haliburton county, and a specimen of folded iron formation by the Assistant Director, in the Kenora district, Ontario.

A very interesting and instructive geological relief model, showing the Lake Iroquois shore line, the topography and the geology in the Toronto-Hamilton-Niagara area, was constructed in the Museum and placed on exhibit.

(26) STATEMENT REGARDING THE ROYAL ONTARIO MUSEUM OF MINERALOGY

(*Professor A. L. Parsons*)

It is with great regret that the retirement of Professor T. L. Walker as director of this museum is here recorded. His work from the founding of the Museum has been a work of love. During the academic year all his time that could be spared from his university work was devoted to the service of the Museum, and most of his summer holidays were given up to collecting abundantly from Canadian mineral localities. He was ever the first on hand and the last to leave and was a continual source of inspiration to his colleagues in their work.

His work in the past twenty-five yeas has augmented a good university collection of minerals and rocks, until the Museum has now not only one of the finest gallery displays in America but also a collection which in point of completeness is excelled by few museums in the world. When the history of the Museum, which is now in contemplation, is written, the extent of his services can be better set out. As director *emeritus*, it is hoped that we may have the benefit of his judgment and advice for many years.

Dr. V. Ben Meen devoted the months of July and August to a collecting trip in Northern Ontario and Quebec, securing some striking exhibition specimens which have been put on display and a large quantity of material which is to be used in our exchanges with other institutions.

In addition, our collections have been further enriched by purchase, exchange and donations by friends. Further additions of fine specimens of gem stones have been made from the money provided by the bequest of the late Reuben Wells Leonard, Esq. Additional semi-precious stones from Canada have been added by donations from Dr. J. Satterly and J. C. Rogers, Esq., as well as by purchase from H. L. Richardson, Esq.

The collections have been enriched in new species by a continuing exchange with Harvard University. An exceptionally fine series of minerals from the cryolite deposit at Ivigtut, Greenland, has been received from the Philadelphia Commercial Museum following an expedition of the director, C. R. Toothaker, Esq. Our most extensive exchange has been with the New York State Museum from whom we receive about two tons of calcite crystals from Sterlingbush, New York, to be used in the reconstruction of a calcite cave. The largest of these crystals weighs 476 pounds. At present most of the crystals have a white or grey coating which must be removed before the final reconstruction of the cave. After the removal of this coating the crystals are bluish purple in reflected light and a beautiful pink in transmitted light. It is expected that the installation of this exhibit may be completed in about a year.

At the request of the Department of Trade and Commerce, the Museum loaned a collection of Canadian semi-precious stones to be incorporated in the Canadian exhibit at the Paris Exposition. A similar lot was displayed in the Museum's exhibit at the Canadian National Exhibition. In collaboration with the Royal Ontario Museum of Geology a collection of minerals, rocks and ores was exhibited at Kitchener and Stratford as a part of the Museum's policy of encouraging loan exhibits in other parts of Ontario.

The automatic balopticon with its series of pictures relating to the mineral industry continues to be anattraction to young and old alike. The exhibit of flourescent minerals is a never-failing attraction where thousands can see the different effect of ordinary light and ultra-violet light in -producing colour in certain minerals. An ever increasing number of students are making use of the systematic collections of minerals and rocks and the paragenetic collections, with most gratifying results.

During the past year several special excursions of school children from other centres in Ontario have come to the museum on Saturdays. This involves extra work by members of the staff of the museum to give instruction to groups in the gallery. Arrangements are being made to continue this extremely important phase of the museum's work during the coming year, which may possibly involve the employment of assistants for the work.

The growth of the educational activities of the Museum as a whole has necessitated the giving up of a portion of our storage space so as to provide room for a children's museum and office quarters for the teaching staff. If the present policy of the Museum is to be continued it will be necessary in the near future to provide additional safe storage for duplicate material.

The routine work of the Museum has been well carried on by the two paid non-scientific assistants, and the part-time scientific assistant curator, Dr. V. Ben Meen, has completed an investigation of an unusual type of cancrinite from Bancroft, Ontario. By special leave he was able to take advantage of the gracious permission of the Assistant Secretary of the United States National Museum to work under the direction of Dr. W. F. Foshag during the month of May and part of June, in improving his knowledge of museum technique and mineral analysis. In the best interests of the Museum it is desirable that this scientific work should be augmented by the assistance of a qualified man who should devote his entire time during the winter months to the service of the Museum.

(27) STATEMENT REGARDING THE ROYAL ONTARIO MUSEUM OF PALAEONTOLOGY

(*Madeleine A. Fritz*)

Considerable attention has been focused on this Museum during the past year owing to the installation in the galleries of invertebrate palaeontology of a magnificent series of mural paintings, the work of the eminent Canadian artist Mr. G. A. Reid. These murals, which are being provided from the funds of the Reuben Wells Leonard bequest, depict in a most sriking manner the history of the world from its misty beginnings to the more or less well ordered world as we know it to-day.

Other outstanding exhibits place in the galleries during the past year include:

(1) A Pleistocene mammal group from the asphaltic deposits near Los Angeles. This group consists of a sabre tooth tiger, two extinct wolves, and a giant sloth. It is accompanied by a painting which greatly aids the imagination

in reconstructing a scene in California characteristic of the time when the skeletons, here displayed, were parts of living animals.

(2) The skull of a carnivorous dinosaur from the Cretaceous of Alberta.

(3) Two cases in which Jurassic and Cretaceous sea life may be seen diagrammatically illustrated by a series of life-like models.

(4) A case showing calcaregous structures thought to be formed through the agency of algae that lived during various geological periods. Accompanying the specimens are photographs illustrating extensive limestone formations built up almost entirely of these structures. as well as a map of North America indicating their geological distribution.

In connection with the Museum's general educational program. members of the palaeontological staff have taken care of twenty-one lectures and demonstrations to children from out of town schools, in addition to four Saturday morning lectures to groups of over four hundred Toronto children.

In the series of popular public lectures sponsored by the Committee of Directors the Museum of Palaeontology contributed two.

The following lists indicate the chief acquisitions to the Museum during the past year:

By exchange

Specimen of the extinct Dodo for an unprepared skull of dinosaur (*Anchiceratops*)—Dr. T. Barbour, Harvard University.

Collection of Australian sponges for a kull of fossil rhinoceras (*Coenopus*) and the skull of an oreodont (*Merycoidodon*)—R. Bedford, Esq., Kyancutta Museum, South Australia.

Collection of Permian brachiopods from India for a set of Ontario brachiopods —Dr. Charles Schuchert, Yale University, New Haven.

A series of Southern Methodist University publications for collection of publications by Dr. W. A. Parks and others—Dr. C. C. Albritton, Southern Methodist University, Dallas, Texas.

By donation

Two specimens of Devonian fish—Mr. R. G. Stewart, 54 Wychwood Park. Toronto.

Two coral specimens from Pembroke. Ontario—Dr. V. J. Okulitch. Royal Ontario Museum.

Algal structure—Mr. M. Frank, Jarvis Street. Toronto.

Fine specimen of trilobite, *Calymene niagarensis*—Mr. C. E. H. Dowler. 9 Prince Arthur Ave.. Toronto.

Six blastoid specimens from Mt. Coleman, Alberta—Professor A. P. Coleman. Royal Ontario Museum, Toronto.

By purchase

Large collection of invertebrate fossils—Mr. J. E. Narraway. Ottawa. Ontario.

Large collection of calcareous algae—Dr. C. L. Fenton. West Liberty. Iowa.

By collection

Collection of Humber fossils—Fourth year students.

(28) STATEMENT REGARDING THE EDUCATIONAL WORK OF THE ROYAL ONTARIO MUSEUM

(Helen Reynar, Secretary-Treasurer)

Owing to the poliomyelitis epidemic last autumn the educational programme planned for the year was considerably upset. Notwithstanding the delay of six weeks in commencing school classes at the Museum, reports on the year's work show a decided increase in attendance over last year.

Out-of-town-Groups

67 groups of school children (6.131 in all) visited the Museum from towns and cities outside of Toronto: Woodstock. Preston. Ridgeway, Elmira, Uxbridge, St. Catherines, Welland, Oshawa, Collingwood, Sudbury, Peterboro, among others. Included in this number were five large parties from Paris and Brantford, Trinity College School, Port Hope, London, Guelph, and Hastings County who enjoyed one of the popular "Museum Days" inaugurated last year. Assisting on these occasions were members of the Boy Scout Association who gave excellent service in conducting groups from one lecture to another.

Saturday morning lectures and movies

The Saturday morning illustrated lectures for children were carried on successfully, with a total attendance of 7,269. To prevent overcrowding, a plan was devised whereby the schools of the city were divided into three groups to come to the Museum on the first three Saturdays of the month, the fourth Saturday being reserved for separate and private schools of the city and for schools in the suburbs. Talks followed by moving pictures were given by members of the staff on the exhibits in the museum: "Fishing in the Prehistoric Past"—movie: "The Lost World; This Changing World"—movie: "Volcanoes, Glaciers, etc."; "Life in Egypt"—Movie: "Daily Life of the Egyptians"; "The Beaver"—Movie: "Grey Owl films".

Open Evenings

Six "Open Evenings" were held during the season. with an attendance of 998. The first Wednesday evening of the fall and winter months is reserved for clubs and societies who arrange in advance for special lectures in the galleries, one floor being open each evening. Among the groups were the following: The Runnymede Dramatic Reading Club, University Chapter of Royal Arch Masonry. Workers Educational Association, Boy Scout Leaders, Ontario Hunters and Game Protectors Association, the Zonta and Soroptomist clubs.

Travelling Exhibits

Special selected exhibits have been sent on loan to Kitchener and Stratford in rotation for display in the public libraries. In connection with a zoology exhibit, Mr. Lester L. Snyder lectured in both cities on "The Effects of Civilization on North American Bird Life"; Professor Ellis Thomson spoke on "Gems" and Dr. V. Ben Meen on "Minerals as a Hobby" the former at Kitchener. the later at Stratford when the mineralogy exhibit was opened; in connection with the "Arms and Textiles" exhibit, Dr. Currelly lectured at Kitchener on "The Romance of your own Job", and in Stratford, with the Egyptian exhibit, on "Egyptian Tombs". At present there is a representative collection of Chinese objects in Kitchener. These loan exhibits are creating a great deal of interest and are attracting many visitors. as well as serving as excellent illustrative material for the schools.

Pay Courses

Following her usual practice. Miss Ruth M. Home arranged two pay lecture courses, one on Pottery and Porcelain" with a registration of 62: the other on "The Modern House" with 35 in attendance.

In order to assist the teachers of Grade IV in new work required under the New Curriculum, a special course of 12 lectures was arranged for Thursday afternoons, with Professor T. F. McIlwraith and Miss Home in charge. 72 teachers availed themselves of this opportunity to gain information about "The African Negro", "Peoples of the Pacific", "The Eskimo", "Men of the Old and New Stone Age", "The Coming of Metal", "Communication", "Invention of Writing", etc.

Tuesday public lectures

For the fifth consecutive season the popular Tuesday afternoon lectures were continued under the auspices of the Committee of Directors, a series of seven archaeological lectures before Christmas, followed by ten on natural history subjects after Christmas . There was an attendance of approximately 3,500 at these lectures.

Miss Payne's public school classes

During the school year Miss Lilian J. Payne, teacher at the Museum under the Board of Education, lectured to 22.885 children in 601 classes. Four classes from the VII and VIII Grades visit the Museum daily. The pupils of other Grades are taken care of by Miss Home and Mr. F. A. Urquhart.

To meet the steadily increasing demands for lectures especially from the lower grades of the public schools and schools from out of town, the Board of Trustees appointed Miss Sylvia Hahn and Mrs. Stella Gould for part-time service during the busy months, and for the coming year Miss Ella Martin, M.A., Oxon. has been added to the staff as full-time assistant to Miss Home.

Steadily increasing use of the Museum is being made in connection with undergraduate university classes and by students in the School of Graduate Studies. This applies in particular to the students registered in Fine Arts.

The total attendance at the Museum during the year ending 30th June, 1938, was 268,872.

(29) REPORT OF THE DIRECTOR OF THE DAVID DUNLAP OBSERVATORY

(*Professor R. K. Young*)

During the year 1937-38 the 74-inch telescope as constructed by the Sir Howard Grub Parsons & Co. has continued to operate efficiently. At the time of its construction no facilities were available for coating the large mirror with the newly discovered aluminum or chromo-aluminum coating. Since the opening of the observatory we have used the chemical method of a silver deposit on glass. Apart from the labour involved in the latter process which has to be repeated two or three times per year the aluminum is a much superior reflector and lasts for several years. At least one company in the United States is now prepared to handle disks as large as 76 inches and we hope to be able to coat the mirror with aluminum in the not too distant future. If time is available a suitable apparatus of doing the secondary mirrors will be constructed in our own workshops.

As mentioned in the report of last year the need is felt of subsidiary pieces of apparatus. During the year we have put the 19-inch telescope into operation and made the upper end of the tube rotative. A self-recording microphotometer has been constructed in the workshops and the temperature control of the Hilgerspectrograph is being converted to the Wheatstone bridge method.

The number of clear working hours was about the same as last year. 1275 and during this time 1216 plates were secured. During the year there were 2730 visitors to the observatory.

Accessions to the library number 207 as follows: gifts 68. purchase 38, exchange 14. from R.A.S.C. 87. There are now 3296 volumes in the library of which 1702 are on loan from the Royal Astronomical Society of Canada.

On the afternoon of Tuesday, April 25th, four oak trees were planted in front of the observatory. The ceremony was informal. Trees were planted by Mrs. Jessie Donalda Dunlap, the donor of the observatory, Sir William Mulock, Mr. Moffat Dunlap and Professor Chant. This forms an auspicious start to the eventual reforestating of the large observatory grounds.

A bi-weekly seminar has been inaugurated by members of the staff to facilitate covering recent astronomical literature.

(30) REPORT OF THE OFFICER COMMANDING THE U.O.T. C.O.T.C.

(Lt.-Col. H. H. Madill, V.D.)

I have the honour to report on the activities of the University of Toronto Contingent of the Canadian Officers Training Corps for the academic year 1937-38 as follows:

The membership in the contingent, which showed a slight increase over the previous year, was distributed as follows:

Headquarters	7
"A" Coy (University College)	45
"B" Coy (Medicine & Dentistry)	75
"C" Coy (App. Science & Forestry)	94
"D" Boy (Arts other than U.C.)	70
Attached from other units for instruction	15
Attached from other units for duty	3
	309

Enlistment in the corps is voluntary and the primary object of the training is to prepare candidates for War Office Examinations for Certificates "A" (lieutenant) and "B" (captain) in the various Arms of the Service. This training is obtained with the least possible interference with a civil career and in case of a national emergency holders of these specialised qualifications may perform the service for which they are best suited and which would be of the greatest benefit to the country, while their liability for service is no greater than that of any other Canadian citizen.

The examination consist of Part I, practical, and Part II, written, and cannot be taken before the second year of service. In 1937, seventy-six per cent. of the U. of T. candidates were successful in obtaining certificates. The 1938 results are not yet available, but 62 candidates took the Part II examinations and the following were successful in the practical examinations:

"A", Artillery	8	"A", Infantry	21
"B", Artillery	5	"B", Infantry	10
"A", Arty Survey	1	"B", Machine Gun	1
"A", Engineers	4	"A", Medical	6
"A", Signals	3	"B", Medical	1

Other qualifications obtained were,—

Signals—Visual Telegraphy	8	Line Telegraphy	12
Wireless "	2		
Canadian Small Arms School.—"A" Wing	1		

The parades were held by companies twice a week of one hour duration and a battalion parade in uniform was held once a month at the University Avenue Armouries.

The course in rifle shooting was conducted for all ranks on the miniature range in Hart House and three prices presented in each company and one to the best shot in the contingent.

The Contingent was honoured in having Sergeant G. H. Elms selected as a member of the Canadian Contingent which took part in the ceremonies in London at the

Coronation of Their Majesties. King George VI and Queen Elizabeth on 12th May. 1937.

The Annual Inspection was held on Friday, 18th March, by Brigadier W. H. P. Elkins, C.B.E., D.S.O., and his staff who, after the ceremonial parade, inspected the members of the corps while conducting their work in the various arms. Brigadier Elkins presented the prizes for shooting and expressed himself as well pleased with the work which is being conducted.

(31) REPORT ON THE ACTIVITIES OF THE STUDENTS' ADMINISTRATIVE COUNCIL

(*E. A. Macdonald, B.A.. Secretary-Treasurer*)

Provision was made in the University Act of 1906 for the Students Administrative Council to act as the representative body of the students of the University of Toronto and to afford a recognised means of communication between the university authorities and the student body. Since that date the scope of its activities has greatly increased.

The Students' Administrative Council is composed of the presidents or the elected heads of every official undergraduate body, both men and women, of every college and faculty which go to make up the University of Toronto. It is, therefore, a thoroughly representative university organisation and is a powerful unifying force in the University. In addition, there are two members of the staff appointed by the President as his representatives on the Council, Professor S. N. F. Chant, and Professor J. R. Cockburn; there is also the president who must be a graduate of not more than five years standing, the general secretary-treasurer and the associate secretary.

The work of the Council is carried on by five important sub-committees, the Publications Committee, the Finance Committee, the Debates Committee, the Sporting Activities Committee and the Loan Committee. The committees meet previous to each meeting of the Council and present their reports to the Council for their approval.

The publications of the Council include the *Students' Handbook*, which is given free of charge to every undergraduate on registration in the fall. This book contains much valuable information about the University having the names, addresses and telephone numbers of every officer of every undergraduate society and organisation of every faculty and college in the University. The advertising which the book contains covers the cost of the book and allows as well a small profit on the book. A hundred issues of the *Varsity* are published throughout the term, five days per week. Approximately 6,000 copies are printed per day. A staff of 125 students is responsible for the news and feature writing and the technical work of producing the paper which is supervised by the Publications Committee of the Council. The editor of the *Varsity* and the associate editors, heads of departments, are paid salaries by the Students Administrative Council. *Torontonensis*, the annual year book, is produced each year, 1,350 copies being printed. Each member of the graduating class receives a book which is a very important historical record of undergraduate activities of the University. It contains the photograph and biography of every member of the graduating class, messages from the President and from the Deans of Faculties and Heads of Colleges, a photograph of every undergraduate organisation in the University as well as every athletic team in the University. It is a books very dear to every student in the graduating class. Both the Varsity and Torontonensis are great unifying forces in the University as students from every college and faculty in the University are on the staff of both these publications.

The Council again this year paid for one half the cost of printing the university directory of staff and students amounting to $756. Financial aid was given to the University Drama Committee and a contribution was made to the Student Conference in Winnipeg, in December. The Council holds membership in the National Federation of Canadian University Students and is, by far, the largest financial contributor to this organisation. The Debates Committee was responsible for arranging debates with other Universities. A debating team from the University of Melbourne, Australia, visited the University of Toronto in the fall, a contribution to their expenses being made by the Students' Administrative Council and they were entertained by the Council while visiting the University of Toronto. In co-operation with the Osgoode Hall Legal and Literary Society, the Council financed and made arrangements for a debate with two representatives from Laval University. This Debate was held in the Trinity College Library. The Council sent two representatives to McGill University to take part in an intercollegiate debate there. The Committee on Sporting Activities looked after the organisation and administration of the University of Toronto band. New uniforms were provided for the band at a cost of $1500 during the past year. The band has a membership of 55 students and is also a representative university organisation as students from every part of the University are members of the band. The Council sent the band to the out of town games with the football team and arranged for special excursions for students to these games as well. The band played at all the home games. The cheerleaders and the skits at half time at the Rugby games come directly under this Committee. In consultation with the men's and women's athletic directorates, the Students' Administrative Council recommended that a three dollar fee be imposed on all students which would cover their admission to football and hockey games to the stadium rink on certain days, the opening of Hart House athletic facilities at night and those of a women's building should such become available, as well as affiliations with outside clubs for certain sports for which the University lacks facilities. The undergraduate body voted by a great majority in favour of the plan and upon the request of the Council the Board of Governors imposed a fee for the 1937-38 session.

To train students in the field of symphonic music, the Students' Administrative Council organised the University of Toronto Symphony Orchestra, and purchased for this orchestra a valuable musical library to which additions are made each year. The orchestra is conducted by an undergraduate in the University and has more than 75 members at the present time, who like the members of the University band are selected from every constituent part of the University. The orchestra gives a concert, free of charge, for the student body in Convocation Hall each year.

The Council was host to a party of students from Finland comprising the Helsinki University Chorus in January. These students were welcomed by the President in the Senate Chamber and were given tea in Hart House by the Council. It was also host to a party of German Exchange students who visited the University in April.

The Loan Committee of the Council is composed of a member of the Board of Governors, Mr. J. J. Gibson, and the permanent officers of the Council. Mr. Gibson acts as chairman of the Committee. A total appropriation of $8500 has been made from the surplus funds of the Council for the purposes of loans. This has been of the greatest help to a large number of students making it possible for them to complete their university course and graduate. That this assistance has been greatly appreciated is shown by the fact that students make these loans a first charge on their earnings after they have become established, and repayments have been so satisfactory that to date it has been possible to loan $18000. The Council wishes to record the great debt it owes Mr. Gibson and to express its sincere thanks to him for his help in the administration of this fund. He has given freely of his time in interviewing students who apply for loans, and his judgment and wide experience are responsible more than any other single factor for the successful operation of this fund.

In addition to this loan fund a number of services have been carried on in the office of the Students' Administrative Council which have been of great value to the student body. The housing service is proving a great benefit to a large number of students. Rooms in boarding houses adjacent to the University are given a most rigid inspection during the summer months and the information is recorded on a card index in the Council office. As the Council is responsible to the owners of the houses for the students whom they send to them it is possible to get a much lower rate than the individual student could obtain. Each year, during the inspection a number of homes are recorded as not being proper places in which the students should live. Parents, of the first year students particularly, rely to a very great extent on the Students' Administrative Council to get the proper accommodation for their sons and daughters. One result of this activity has been that each year a number of homes are obtained who will provide free board and room in exchange for services about the house and this is of the greatest help to students who are in difficult financial circumstances. This was made possible for fifty-six students attending the University during the past year.

Recognising the need for some vocational guidance and employment service for students in the University, in 1933 an Employment Bureau was established. Contacts with employers were made first through the advertisers in the Council's publications. This year the employment bureau has become well known amongst employers owing to the fact that the persons sent to fill the various positions available were selected with care of proved satisfactory. The employment bureau is becoming one of the most important activities of the Students' Administrative Council. Many students rely to a great extent on this service to finance their university course. The bureau is chiefly concerned with providing summer, Christmas and part-time work, but in the past few years a number of permanent positions covering a wide field have been obtained for students when they graduate. During the past academic year, 1486 students were referred to positions and this year the number will be even larger. It is proposed next year to establish a permanent committee of the Council on Student Employment and Assistance.

The employment bureau, the loan fund and the housing service have made possible a large number of students continuing their university course, finally graduating and becoming established in a profession which otherwise would not have been possible. So much have these services been appreciated by certain students, that, entirely unsolicited, this year a sum of money amounting to $900 was given to the Secretary-Treasurer of the Students' Administrative Council, without condition, to help worthy students who require assistance. The Council wishes to record its most grateful thanks to the donors of this money.

The activities of the Council so greatly increased that the office space in Hart House was not adequate to cope with the large number of students using the facilities of the Council. Consequently the Board of Governors provided increased accommodation in Hart House, and the Council now enjoys larger rooms which are satisfactory in every particular. The Council would like to record here its grateful appreciation to the President of the University for his whole-hearted and kindly interest in its affairs which is responsible in no small degree to larger space being provided. They also wish to record their appreciation and their sincere thanks to the Board of Governors of the University who provided the accommodation and to the acting Warden of Hart House, Mr. J. R. Gilley, and the Board of Stewards of Hart House for their interest and their co-operation in this matter.

At the opening of term in October the members of the Council were guests of the President and Mrs. Cody at dinner. Members of the Council representing the student body took part in the service of remembrance at the Hart House tower on November 11th.

Dr. W. Bryden, Warden of the Students' Union of the University of Melbourne, Australia, visited the Council and attended a meeting in December. Dr. Hannah of the Associated Medical Services also attended a meeting of the Council and explained to them the work of his department.

The Council this year were again hosts at the Garden Parties given on June 9th and 10th following the conferring of degrees. The President and Mrs. Cody, President of the Council, the Vice-Presidents of the Council, the President of the Engineering Society, the President of the Medical Society, and the President of the Dental Parliament received the guests at the Thursday Garden Party. At the Friday Garden Party, the President and Mrs. Cody, and the President and Vice-President of the Students' Council received the guests. Through the co-operation of the Council, the graduation ball was again held in Hart House on Friday, June 10th. This was again by far the largest social event of the year. 2.693 guests attended it. The arrangement for this function was carried out in the Council office.

A second hand Book Exchange is operated in the women's office for the benefit of all women students and many hundreds of books are brought in and resold each year.

APPENDIX B

REPORT OF THE REGISTRAR

(*A. B. Fennell, Esq., M.A.*)

I beg to submit the following statistics for the year ending June 30th, 1938:—

(*a*) Distribution of the staff of the University and University College (furnished by the Bursar).

(*b*) Distribution of the staffs of the federated Arts Colleges (furnished by the Registrars of the colleges).

(*c*) Registration of students by faculties and years.

(*d*) Enrolment in the Arts Colleges (furnished by the Registrars of the colleges).

(*e*) Enrolment in the university department in Arts (furnished by the departments).

(*f*) Registration in courses in the Faculty of Arts.

(*g*) Registration in courses in the School of Graduate Studies (furnished by the Secretary of the School).

(*h*) Results of annual examinations (furnished by the Secretaries of the faculties).

(*i*) Admission to degrees.

(*j*) Admission to diplomas and certificates.

(*k*) Geographical distribution of students (furnished by the Secretaries of the faculties).

(*a*) Distribution of the Staff of the University and University College:

	Professors	Associate Professors	Assistant Professors	Associates	Lecturers	Directors	Assistant Directors	Instructors	Other Sessional Appointments
University (Faculty of Arts)	42	33	34	—	30	—	—	—	136
University College	15*a*	8	10	—	8	—	—	—	3
Faculty of Medicine	27*b*	12	30	28	19*c*	—	—	—	190
Faculty of Applied Science and Engineering	14	11	12	—	21	—	—	—	51
Faculty of Household Science	2	—	2	—	5	—	—	—	8
Ontario College of Education	8	4	4	—	26*a*	—	—	26	—
Faculty of Forestry	2	2	1	—	1	—	—	—	—
Faculty of Music	—	—	—	—	4	—	—	—	—
Faculty of Dentistry	10	7	1*d*	23	3*d*	—	—	—	6
Social Science	1	—	—	—	17*e*	—	1	—	—
School of Nursing	—	—	—	—	46*f*	1	1	2	—

a 1 also in University
b 1 also in Arts
c 2 also in Dentistry; 1 also in Applied Science; 1 also in Ontario College of Education
d 1 also in Medicine
e 1 also in Arts; 1 also in Dentistry
f 1 also in Arts; 20 also in Medicine; 1 also in Dentistry; 2 also in Ontario College of Education

(*b*) Distribution of the Staffs of the Federated Arts Colleges:

	Victoria College	Trinity College	St. Michael's College
Professors	11	13	14
Associate professors	6	4	7
Assistant professors	5	..	1
Lecturers	10	3	16
Instructors	4	..	13
Fellows	5	2	..
Readers	1	2	..

(c) Registration of Students by Faculties and Years:

The number of students registered in the university, in colleges and faculties, in the session 1937-38 was 7,232, distributed as follows:

				Men	Women	Total
Faculty of Arts				2,239	1,724	3.963
University of Toronto	733	516	1,249			
University College	610	502	1,112			
Victoria College	416	453	869			
Trinity College	227	136	363			
St. Michael's College	253	117	370			
Faculty of Medicine				771	72	843
Faculty of Applied Science and Engineering				832	1	833
Faculty of Household Science				...	41	41
Ontario College of Education				379	330	709
Faculty of Forestry				31	...	31
Faculty of Music				28	21	49
School of Graduate Studies				432	151	583
Faculty of Dentistry				190	22	212
Registered twice				22	10	32
				4.880	2.352	7.232

In departments there were registered 628, distributed as follows:

	Men	Women	Total
Department of Social Science	9	55	64
School of Nursing	...	466	466
Physical Education for Women	...	24	24
University Extension (Occupational Therapy)	...	40	40
University Extension (Physiotherapy)	...	34	34
	9	619	628

The grand total of registration for the whole university was 7.841, of whom 4.889 were men and 2,952 were women.

In addition there were 5,801 persons registered in the Department of University Extension in courses and at provincial centres which are referred to in detail in Appendix A (14).

The figures may be further analysed as follows:

Faculty of Arts

University of Toronto

	Men	Women	Total
Teachers' Classes and Summer Session	447	478	925
Occasional Arts students	286	38	324
	733	516	1,249

University College

	Men	Women	Total
First year undergraduates	191	191	382
Second year undergraduates	165	145	310
Third year undergraduates	156	103	259
Fourth year undergraduates	90	55	145
Occasional students	8	8	16
	610	502	1,112

Victoria College

	Men	Women	Total
First year undergraduates	129	139	268
Second year undergraduates	121	122	243
Third year undergraduates	96	128	224
Fourth year undergraduates	67	60	127
Occasional students	2	2	4
Exchange Students	1	2	3
	416	453	869

Trinity College

	Men	Women	Total
First year undergraduates	56	56	112
Second year undergraduates	78	32	110
Third year undergraduates	61	33	94
Fourth year undergraduates	30	14	44
Occasional students	2	1	3
	227	136	363

St. Michael's College

	Men	Women	Total
First year undergraduates	107	37	144
Second year undergraduates	54	37	91
Third year undergraduates	76	35	111
Fourth year undergraduates	16	8	24
	253	117	370

Faculty of Medicine

	Men	Women	Total
First year undergraduates	128	15	143
Second year undergraduates	124	13	137
Third year undergraduates	134	10	144
Fourth year undergraduates	128	10	138
Fifth year undergraduates	125	11	136
Sixth year undergraduates	103	10	113
Candidates for Degree of B.Sc. (Med.)	4	..	4
Candidates for Diploma in Psychiatry	4	2	6
Candidates for Diplomas in Public Health	17	1	18
Candidate for Diploma in Radiology	1	..	1
Graduate students	3	..	3
	771	72	843

Faculty of Applied Science and Engineering

	Men	Women	Total
First year undergraduates	276	..	276
Second year undergraduates	226	1	227
Third year undergraduates	174	..	174
Fourth year undergraduates	148	..	148
Fifth year undergraduates	8	..	8
	832	1	833

Faculty of Household Science

	Men	Women	Total
First year undergraduates	..	6	6
Second year undergraduates	..	5	5
Third year undergraduates	..	24	24
Fourth year undergraduates	..	4	4
Occasional students	..	2	2
	..	41	41

Ontario College of Education

	Men	Women	Total
Students in attendance	123	218	341
Extra-mural students	91	93	184
Students in B.Paed course	170	20	190
Registered twice	5	1	6
	379	330	709

Faculty of Forestry

	Men	Women	Total
First year undergraduates	8	...	8
Second year undergraduates	12	...	12
Third year undergraduates	5	...	5
Fourth year undergraduates	6	...	6
	31	...	31

Faculty of Music

	Men	Women	Total
First year undergraduates	6	2	8
Second year undergraduates	13	3	16
Third year undergraduates	9	16	25
	28	21	49

School of Graduate Studies

	Men	Women	Total
Candidates for Degree of Ph.D.	101	17	118
Candidates for Degree of M.A.	116	57	173
Candidates for Degree of M.S.	3	...	3
Candidates for Degree of M.A.Sc.	12	...	12
Candidates for Degree of C.E.	1	...	1
Candidates for Degree of Mech. E.	1	...	1
Candidates for Degree of D.Paed.	45	1	46
Candidates for Degree of M.Sc. (Dent.)	1	...	1
Candidates for Degree of M.S.A.	20	...	20
Candidates for Degree of Mus. Doc.	3	...	3
Graduate students	129	76	205
	432	151	583

Faculty of Dentistry

	Men	Women	Total
First year undergraduates	31	...	31
Second year undergraduates	47	1	48
Third year undergraduates	39	...	39
Fourth year undergraduates	35	1	36
Fifth year undergraduates	32	1	33
Candidates for Degree of B.Sc. (Dent.)	5	...	5
Candidates for Diploma in Dental Nursing	...	19	19
Occasional student	1	...	1
	190	22	212

Department of University Extension

B.A. Course Summer Session	Men	Women	Total	Grand Total
Regular students	142	167	309	...
Occasional students	4	5	9	318
Teachers' Classes:				
Toronto:				
Regular students	319	301	620	...
Occasional students	21	7	28	...
Brampton:				
Regular students	9	11	20	...
Port Arthur:				
Regular Students	2	8	10	678
Specialists' Courses				
Summer Session:				
Regular students	13	4	17	17
Registered twice	63	25	88	88
	447	478	925	925

Department of Social Science

	Men	Women	Total
First year full-time students	4	21	25
Second year full-time students	3	13	16
Part-time students	2	21	23
	9	55	64

School of Nursing

	Men	Women	Total
Full-time students	...	106	106
Part time students	...	360	360
	...	466	466

(d) Enrolment in the Arts Colleges

(1) University College:

	English	Ethics	French	German	German (Sc.)	Greek	Greek and Roman History	Latin	Oriental History	Oriental Languages	Oriental Literature
First Year—											
Pass	181	14	217	39	54	8	19	11	1	20	107
Honour	55	..	39	18	..	4	22	24	3	1	..
Second Year—											
Pass	152	21	154	25	31	6	12	3	14	8	109
Honour	29	15	26	13	..	3	4	13	2	..	..
Third Year—											
Pass	99	93	60	8	..	9	28	17	13	9	87
General	2	..	1	..	..	..	..	1	1	..	..
Honour	23	32	16	8	..	5	6	11	2	2	..
Fourth Year—											
Pass	..	..	..	..	..	5	26	..	..	..	55
General	2	2	2	..	..	..	..	..	..	..	..
Honour	24	8	21	16	..	3	3	10	3	3	..
Totals—											
Pass	432	128	431	72	85	28	85	21	28	37	358
General	4	2	3	..	..	..	..	1	1	..	..
Honour	131	55	102	55	..	15	35	58	10	6	..
Teachers' Classes	137	..	33	5	..	..	..	6	..	..	..
Graduate Studies	63	..	18	8	..	4	3	4	..	8	..
Other Faculties	..	9	149	217	..	..	..	..	..	..	..
Grand Total	767	194	736	357	85	47	123	90	39	51	358

(2) Victoria College:

	English	Ethics	French	German	German (Sc.)	Greek	Greek and Roman History	Latin	Oriental History	Oriental Languages	Religious Know.
First Year—											
Pass	118	16	133	16	37	3	29	6	3	3	103
Honour	40	..	39	18	..	7	14	24	2	..	...
Second Year—											
Pass	80	37	78	10	30	7	9	5	2	3	100
Honour	33	9	38	26	..	5	5	15	2	2	..
Third Year—											
Pass	94	36	51	13	..	6	36	4	3	4	98
General	11	1	8	4	..	1	1	1	..	..	..
Honour	25	18	19	14	..	1	1	10	..	..	..
Fourth Year—											
Pass	..	17	..	..	..	..	20	..	..	..	55
General	1	2	1	1	..	..	1	..	..	..	..
Honour	22	12	18	16	..	8	7	8	..	..	..
Totals—											
Pass	292	106	262	39	67	16	94	15	8	10	356
General	12	3	9	5	..	1	2	1	..	..	..
Honour	120	39	114	74	..	21	27	57	4	2	..
Teachers' Classes	60	..	25	..	..	..	..	..	..	..	..
Graduate Studies	14	..	4	5	..	1	1	5	1	1	..
Grand Total	498	148	414	123	67	39	124	78	13	13	356

(3) Trinity College:

	English	Ethics	French	German	German (Sc.)	Greek	Greek and Roman History	Latin	Oriental History	Oriental Languages	Religious Know.
First Year—											
Pass	48	2	77	12	14	2	7	2	..	..	96
Honour	17	2	10	5	..	..	3	5	..	..	..
Second Year—											
Pass	44	17	28	3	4	..	1	2	..	..	99
Honour	12	4	4	8	..	3	3	3	..	..	..
Third Year—											
Pass	23	12	21	2	..	..	..	4	..	..	86
General	1	1	2	1	..	1	1	1	..	..	..
Honour	13	4	7	7	..	..	1	2	..	..	..
Fourth Year—											
Pass	..	..	..	..	..	..	..	..	..	..	40
General	..	..	..	..	..	1	1	1	..	..	..
Honour	7	2	4	..	..	5	5	5	..	..	..
Totals—											
Pass	115	31	126	17	18	2	8	8	..	..	321
General	1	1	2	1	..	2	2	2	..	..	..
Honour	49	12	25	20	..	8	12	15	..	..	..
Grand Total	165	44	153	38	18	12	22	25	..	..	321

(4) St. Michael's College:

	English	Ethics	French	German	German (Sc.)	Greek	Greek and Roman History	Latin	Philosophy	Religious Know.
First Year—										
Pass	65	23	59	3	12	2	5	41	59	112
Honour	17	..	8	2	..	2	10	10	11	..
Second Year—										
Pass	47	27	35	5	1	7	..	26	48	72
Honour	5	4	12	2	..	1	7	8	4	..
Third Year—										
Pass	52	36	44	10	..	3	..	33	46	87
Honour	11	14	6	2	..	..	2	4	14	..
Fourth Year—										
Pass	..	..	..	..	..	..	..	..	1	19
Honour	5	6	5	4	..	2	..	4	6	..
Totals—										
Pass	164	86	138	18	13	12	5	100	154	290
Honour	38	24	31	10	..	5	19	26	35	..
Grand Total	202	110	169	28	13	17	24	126	189	290

(e) Enrolment in the University Departments in Arts:

The following tables exhibit the numbers attending lectures in the university departments in the Faculty of Arts, together with the number of those taking the practical work in the laboratories:

Department of Anthropology

	Pass	Pass and Honour	Honour
Faculty of Arts—			
First Year	137	80	24
Second Year	..	7	23
Third Year	..	1	16
Fourth Year	..	38	14
School of Graduate Studies	..	..	12
Department of Social Science—			
First Year	..	..	13
Totals	137	126	102

Department of Applied Mathematics

	Pass	Pass and Honour	Honour
Faculty of Arts—			
First Year	8	..	..
Second Year	5	..	30
Third Year	..	..	27
Fourth Year	..	..	17
Occasional Students	..	..	1
Faculty of Applied Science and Engineering—			
Second Year	..	35	..
Third Year	..	6	..
Fourth Year	..	6	..
School of Graduate Studies	..	..	17
Totals	13	47	92

Department of Archaeology

	Lecture Courses
	1 or 2 or 3 hours
	Honour
Faculty of Arts—	
First Year	10
Second Year	17
Third Year	7
Fourth Year	16
Totals	50

Department of Astronomy

	Pass	Pass and Honour	Honour	Laboratory
Faculty of Arts—				
First Year	12	..	..	12
Second Year	7	35	..	7
Third Year	5	..	16	21
Fourth Year	..	..	8	1
Faculty of Applied Science and Engineering—				
Second Year	..	..	14	..
Totals	42	35	38	41

Department of Biology

	Lecture Courses			Laboratory Courses	
	1 or 2 or 3 hours		4 or 5 or 6 hours		
	Pass	Honour	Honour	Pass	Honour
Faculty of Arts—					
First Year	208	113	..	97	113
Second Year	72	93	..	72	93
Third Year	57	32	9	57	24
Fourth Year	..	12	2	..	15
Occasional Students	..	2	..	..	2
Faculty of Medicine—					
First Year	..	145	..	..	145
Third Year	..	7	..	..	1
Faculty of Household Science—					
First Year	..	8	..	..	8
Faculty of Forestry—					
First Year	..	8	..	..	8
Fourth Year	..	6	..	..	6
School of Graduate Studies	..	..	..	..	38
Faculty of Dentistry—					
First Year	..	31	..	..	31
School of Nursing	15	..	..	15	..
College of Optometry of Canada	..	34	..	..	34
Totals	352	491	11	241	518

Department of Botany

	Lecture Courses		Laboratory Courses	
	1 or 2 or 3 hours			
	Pass	Honour	Pass	Honour
Faculty of Arts—				
First Year	9	122	9	122
Second Year	14	14	14	14
Third Year	13	5	13	5
Fourth Year	..	5	..	5
Occasional Students	2	7	..	7
Faculty of Applied Science and Engineering—				
First Year	..	..	68	..
Faculty of Household Science—				
First Year	7	..	7	..
Faculty of Forestry—				
First Year	..	8	..	8
Fourth Year	..	..	..	6
School of Graduate Studies	..	21	..	..
Ontario Agricultural College	..	2	..	..
Ontario College of Pharmacy				
First Year	121	..	121	..
Second Year	104	..	104	..
Totals	270	184	336	167

Department of Chemistry

	Pass	Pass and Honour	Honour	Laboratory
Faculty of Arts—				
First Year	195	..	167	253
Second Year	56	..	93	121
Third Year	37	..	26	56
Fourth Year	1	..	15	15
Occasional Students	..	..	7	1
Faculty of Medicine—				
First Year	..	150	..	150
Second Year	..	126	..	104
Faculty of Applied Science and Engineering—				
First Year	..	83	..	83
Second Year	..	87	..	86
Third Year	..	125	..	123
Fourth Year	..	11	..	11
Faculty of Household Science—				
First Year	..	6	..	6
Second Year	..	4	..	..
Faculty of Forestry—				
First Year	8	..	..	8
Second Year	11	..	..	3
School of Graduate Studies	..	..	64	26
Faculty of Dentistry—				
First Year	..	31	..	31
Second Year	..	47	..	47
Third Year	..	39	..	39
Ontario College of Pharmacy—				
First Year	122	..	..	122
Second Year	104	..	..	104
Totals	534	709	372	1.389

Department of Fine Art

	Pass	Pass and Honour	Honour
Faculty of Arts—			
First Year	26	..	8
Second Year	33	17	6
Third Year	31	22	..
Fourth Year	..	24	..
Occasional Students	5	..	..
School of Graduate Studies	5	..	..
Totals	100	63	14

Department of Food Chemistry
(Faculty of Household Science)

	Pass	Pass and Honour	Honour	Laboratory
Faculty of Arts—				
Second Year	31	..	..	31
Third Year	14	..	..	14
Fourth Year	..	..	28	28
Faculty of Household Science—				
Second Year	..	5	..	5
Third Year	18	..	..	18
Fourth Year	..	..	4	4
School of Graduate Studies	..	..	4	4
Totals	63	5	36	104

Department of Geography

	Pass	Pass and Honour	Honour	Laboratory
Faculty of Arts—				
First Year	..	170	..	170
Second Year	..	75	..	75
Teachers' Classes	..	125	..	125
Ontario College of Education	250	..	..	..
School of Graduate Studies	..	..	1	..
Totals	250	370	1	370

Department of Geology and Palaeontology

	Lecture Courses					Laboratory Courses	
	1 or 2 or 3 hours		4 or 5 or 6 hours		7 or more hours		
	Pass	Honour	Pass	Honour	Honour	Pass	Honour
Faculty of Arts—							
First Year	128	57	..	..	..	..	..
Second Year	45	23	..	..	..	24	23
Third Year	9	..	..	12	..	9	12
Fourth Year	..	..	..	5	4	..	10
Teachers' Classes	117	..	..	..	..	117	..
Occasional Students	2	..	..	..	..	..	..
Faculty of Applied Science and Engineering—							
Second Year	92	..	..	..	..	34	..
Third Year	50	..	2	..	..	32	..
Fourth Year	32	..	..	..	..	32	..
Faculty of Forestry—							
Second Year	12	..	..	..	..	..	..
Third Year	5	..	..	..	..	..	..
School of Graduate Studies	..	..	..	8	10	..	19
Totals	492	80	2	25	14	248	64

Department of History

	Lecture Courses			
	1 or 2 or 3 hours		4 or 5 or 6 hours	7 or more hours
	Pass	Honour	Honour	Honour
Faculty of Arts—				
First Year	117	140	..	..
Second Year	120	26	55	..
Third Year	80	..	79	10
Fourth Year	2	..	39	5
Teachers' Classes	56	..	..	..
Occasional Students	2	1	2	..
School of Graduate Studies	..	10	22	..
Department of University Extension Evening Classes	50	..	..	..
Totals	427	177	197	15

Department of Household Science
(Faculty of Household Science)

	Pass	Pass and Honour	Honour	Laboratory
Faculty of Arts—				
First Year	..	..	56	..
Second Year	16	..	33	49
Third Year	9	3	30	42
Fourth Year	..	..	26	26
Faculty of Household Science—				
First Year	..	5	..	..
Second Year	..	5	..	5
Third Year	18	..	5	23
Fourth Year	..	..	4	4
School of Graduate Studies	..	..	3	1
Totals	43	13	157	150

Department of Italian and Spanish

	Italian		Spanish	
	Pass	Honour	Pass	Honour
Faculty of Arts—				
First Year	30	10	90	22
Second Year	18	7	77	33
Third Year	16	4	49	14
Fourth Year	..	5	2	4
School of Graduate Studies	..	2	..	8
Totals	64	28	218	81

Department of Law

	Pass	Honour
Faculty of Arts—		
First Year	..	106
Second Year	..	31
Third Year	..	28
Fourth Year	..	30
Faculty of Applied Science and Engineering—		
Third Year	50	..
Faculty of Forestry—		
Third Year	8	..
School of Graduate Studies	..	9
Department of University Extension—		
Evening Classes	35	..
Bachelor of Laws Course	..	12
Totals	93	216

Department of Mathematics

	Lecture Courses					
	1 or 2 or 3 hours		4 or 5 or 6 hours		7 or more hours	
	Pass	Honour	Pass	Honour	Pass	Honour
Faculty of Arts—						
First Year	95	70	..	..	..	60
Second Year	90	6	..	..	..	25
Third Year	60	4	..	..	..	23
Fourth Year	..	5	..	..	..	8
Teachers' Classes	15	..	..	..	..	..
Occasional Students	1	1	..	..	..	1
Faculty of Applied Science and Engineering—						
First Year	237	..	13	..	..	..
Second Year	130	..	10	..	..	..
Faculty of Forestry—						
First Year	10	..	..	..	..	..
School of Graduate Studies	..	8	..	10	..	..
College of Optometry of Canada	20	..	..	..	..	..
Totals	658	94	23	10	..	117

Department of Military Studies

	Pass	Pass and Honour
Faculty of Arts—		
First Year	14	14
Second Year	8	8
Third Year	8	3
Fourth Year	4	1
Faculty of Medicine—		
First Year	7	..
Second Year	9	..
Third Year	1	..
Fourth Year	1	..
Fifth Year	4	..
Sixth Year	2	..
Faculty of Applied Science and Engineering—		
First Year	23	..
Second Year	12	..
Third Year	2	..
Fourth Year	3	..
Faculty of Forestry—		
Second Year	1	..
School of Graduate Studies	3	..
Faculty of Dentistry—		
First Year	1	..
Fifth Year	1	..
Ontario College of Pharmacy—		
First Year	5	..
Second Year	1	..
Totals	110	26

Department of Mineralogy and Petrography

	Pass	Pass and Honour	Honour	Laboratory
Faculty of Arts—				
First Year	12	..	..	12
Second Year	2	..	29	31
Third Year	..	4	19	16
Fourth Year	..	..	10	9
Teachers' Classes	116	..	..	116
Occasional Students	1	..	..	1
Faculty of Applied Science and Engineering—				
First Year	..	157	..	157
Second Year	..	57	..	57
Third Year	..	29	..	29
Fourth Year	..	6	..	6
Faculty of Forestry—				
Second Year	..	6	..	13
School of Graduate Studies	..	..	11	11
Totals	131	266	69	458

Department of Music

	Lecture Courses
	4 or 5 or 6 hours
	Honour
Faculty of Arts—	
First Year	8
Total	8

Department of Philosophy

	Pass	Honour
Faculty of Arts—		
First Year	50	103
Second Year	129	65
Third Year	185	83
Fourth Year	21	54
Teachers' Classes	36	..
School of Graduate Studies	..	61
Department of Social Science—		
First Year	9	..
Totals	430	366

Department of Physics

	Pass	Pass and Honour	Honour	Laboratory
Faculty of Arts—				
First Year	192	..	170	237
Second Year	29	..	69	81
Third Year	30	..	41	66
Fourth Year	..	..	36	28
Candidates for Specialists' Certificates, Summer Session	..	..	5	5
Faculty of Medicine—				
First Year	..	149	..	149
Diploma in Radiology	..	1	..	1
Faculty of Applied Science and Engineering—				
First Year	..	..	16	16
Second Year	..	..	13	13
Third Year	..	..	6	6
Fourth Year	..	..	6	6
Faculty of Household Science—				
First Year	..	..	6	6
Candidates for Specialists' Certificates	..	..	1	1
Faculty of Forestry—				
First Year	8	..	..	8
School of Graduate Studies	..	..	57	32
Faculty of Dentistry—				
First Year	..	31	..	31
Department of University Extension—				
Physiotherapy	19	..	..	19
College of Optometry of Canada	..	35	..	35
Totals	278	216	426	740

Department of Political Science

	Lecture Courses					
	1 or 2 or 3 hours		4 or 5 or 6 hours		7 or more hours	
	Pass	Honour	Pass	Honour	Pass	Honour
Faculty of Arts—						
First Year	148	108	..	73	..	..
Second Year	169	19	..	..	..	83
Third Year	144	37	..	..	..	77
Fourth Year	35	29	..	..	1	61
Teachers' Classes	36	..	..	..	..	..
Occasional Students	2	1	1	..	..	..
Faculty of Household Science—						
Second Year	4	..	..	..	..	..
Third Year	11	..	..	..	..	..
Faculty of Forestry—						
Third Year	4	..	..	..	..	..
School of Graduate Studies	..	..	..	..	..	28
Totals	553	194	1	73	1	249

Department of Psychology

	Lecture Courses				Laboratory Courses	
	1 or 2 or 3 hours		4 or 5 or 6 hours	7 or more hours		
	Pass	Honour	Pass	Honour	Pass	Honour
Faculty of Arts—						
First Year	191	50	..	..	..	..
Second Year	..	..	..	14	152	32
Third Year	89	36	7	11	..	11
Fourth Year	25	33	4	8	..	8
Teachers' Classes	118	..	..	..	..	..
Teachers' Classes, Correspondence	34	..	..	..	..	..
Occasional Students	..	..	..	..	2	..
Faculty of Medicine—						
Second Year	142	..	..	..	..	..
Third Year	..	..	..	..	9	..
Fourth Year	13	..	..	..	..	..
Faculty of Household Science—						
First Year	24	..	..	..	..	..
School of Graduate Studies	40	..	..	..	..	24
Faculty of Dentistry—						
Graduate Students	1	..	..	..	..	..
Department of Social Science—						
First Year	15	..	..	..	..	..
Second Year	15	..	..	..	..	..
School of Nursing	67	..	..	..	..	..
Department of University Extension—						
Occupational Therapy	38	..	..	..	..	..
Physiotherapy	21	..	..	..	..	..
Centralised Pupil Nurses	290	..	..	..	..	..
Evening Classes	259	..	..	..	..	..
Workers' Educational Education	99	..	..	..	..	..
College of Optometry of Canada	66	..	..	..	..	..
Totals	1,547	119	11	33	163	75

(1) Registration in Courses in the Faculty of Arts

Courses	First Year				Second Year				Third Year				Fourth Year				Totals
	U C	V C	T C	M C	U C	V C	T C	M C	U C	V C	T C	M C	U C	V C	T C	M C	
Pass	143	117	51	99	149	93	52	69	98	91	35	76	..	..	..	..	1,073
General	..	..	..	..	..	..	..	..	7	17	5	3	6	11	2	..	51
Classics	3	6	..	1	3	3	3	1	6	1	..	..	2	4	5	1	39
English Language and Literature	20	20	4	6	10	17	1	1	..	..	..	..	..	..	..	..	79
Greek and Hebrew	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Hebrew and Ancient History	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Latin (French or Greek Option) Div. I	1	2	2	2	1	2	..	6	1	3	1	2	..	..	2	1)	30
Latin (French or Greek Option) Div II					..	..	..	..	..	..	..	..	1	3	..	..)	
Modern Languages	21	13	7	1	16	20	3	5	15	16	8	4	22	17	1	4	173
Oriental Languages	1	..	..	..	..	2	..	..	2	..	..	..	3	..	..	..	8
English and History	..	..	..	..	..	..	..	..	6	12	3	4	9	10	3	2	49
Fine Art	5	2	..	1	3	2	1	..	..	..	..	..	..	..	..	..	14
Law	26	5	1	1	15	6	7	1	23	2	3	..	17	6	5	1	119
Music	..	7	..	1	..	..	..	..	..	..	..	..	..	..	..	..	8
Social and Philosophical Studies	48	18	14	5	..	..	..	..	..	..	..	..	..	..	..	..	85
Modern History	..	..	..	..	8	5	5	..	4	2	4	..	1	3	1	..	33
Philosophy	..	..	..	..	3	1	..	2	1	5	1	8	2	1	..	4	28
Philosophy (English or History Option)	4	4	2	6	1	1	4	2	3	5	4	7	4	10	2	2	61
Political Science and Economics	..	..	..	..	10	11	11	1	7	6	11	1	17	6	6	1	88
Psychology	..	..	..	..	11	2	..	..	5	5	1	..	3	4	1	..	32
Sociology	..	..	..	..	6	7	2	..	5	8	..	..	5	8	..	..	41
Mathematics and Physics (Div. I)	18	21	5	6	13	9	3		1	3	1	..	4	2	1	1)	116
Mathematics and Physics (Div. II)									5	1	1	1	3	2	..	..)	
Mathematics and Physics (Div. III)								..	1	..	..	..	1	..	..	..)	
Mathematics and Physics (Div. IV)								)	6	2	1	..	(1	1	1	..)	
Mathematics and Physics (Div. V)								)					(..	1	..	..)	
Physics and Chemistry	..	..	..	..	2	2	..	1	3	..	..	..	..	1	2	..	11
Physics and Geology	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Science	26	15	8	7	..	..	..	..	..	..	..	..	..	..	..	..	56
Biological and Medical Sciences	..	..	..	..	7	5	3	..	5	6	1	1	9	3	2	2	44
Biology	..	..	..	..	1	2	1	..	2	1	2	..	1	1	..	..	11
Biology and Physics	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	2
Chemistry	..	..	..	..	5	6	..	1	4	1	2	..	3	5	2	..	29
Chemistry, Mineralogy and Geology, Div. I	..	..	..	..	2	7	1	..	..	..	..	..	..	..	1	..)	21
Chemistry, Mineralogy and Geology, Div. II	..	..	..	..)					3	2	1	..	2	1	1	..)	
Food Chemistry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Geology and Mineralogy	..	..	..	..	3	5	..	..	2	2	..	..	1	2	1	..	16
Household Economics	28	19	4	5	16	17	1	..	15	13	2	..	8	15	2	2	147
Physics	..	..	..	..	..	..	..	..	2	1	..	1	..	1	1	..	6
Physiology and Biochemistry	..	..	..	..	2	1	..	..	3	1	..	..	..	2	..	..	9
Science (General)	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Commerce and Finance	38	19	14	3	22	16	12	1	23	18	7	3	20	6	2	3	207
Exchange Students	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	3
Registered twice	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Totals	382	268	112	144	310	246	110	91	259	224	94	111	145	127	44	24	2,691

(g) Registration in Courses in the School of Graduate Studies

Department	Ph.D.	M.A.	M.S.	M.A. Sc.	C.E.	Mech. E.	D. Paed.	Mus. Doc.	M.Sc. (Dent.)	M.S.A.	Grad. Stud.	Auditor
Anatomy	..	1	..	..	..	..	..	..	..	..	..	..
Anthropology	..	1	..	..	..	..	..	..	..	..	3	1
Applied Mathematics	2	3	..	..	..	..	..	..	..	..	..	..
Architecture	..	..	..	..	..	..	..	..	..	..	1	..
Biochemistry	9	1	..	..	..	..	..	..	..	..	3	..
Biology	10	5	..	..	..	..	..	..	..	3	12	..
Botany	11	2	..	..	..	..	..	..	..	6	2	..
Chemistry	16	17	..	..	..	..	..	..	..	6	1	..
Chemical Engineering	3	..	..	6	..	..	..	..	..	..	..	1
Chinese Archaeology	1	2	..	..	..	..	..	..	..	..	..	..
Civil Engineering	..	..	..	2	..	..	..	..	..	..	..	..
Classics	4	10	..	..	..	..	..	..	..	..	4	..
Dentistry	..	..	..	..	..	..	..	..	1	..	..	..
Educational Theory	1	..	..	..	..	..	..	..	..	..	1	..
Electrical Engineering	..	..	..	1	..	..	..	..	..	..	..	1
English	..	17	..	..	..	..	..	..	..	..	36	..
Food Chemistry	..	2	..	..	..	..	..	..	..	..	1	..
Geography	..	1	..	..	..	..	..	..	..	..	1	..
Geology and Palaeontology	3	4	..	..	..	..	..	..	..	..	8	..
Germanic Languages	1	3	..	..	..	..	..	..	..	..	4	..
History	6	7	..	..	..	..	..	..	..	..	18	..
Household Science	..	3	..	..	..	..	..	..	..	..	..	..
Hygiene and Preventive Medicine	..	..	..	..	..	..	..	..	..	3	1	..
Law	..	2	..	..	..	..	..	..	..	..	2	..
Mathematics	1	4	..	..	..	..	..	..	..	..	5	..
Mechanical Engineering	2	..	..	3	..	..	..	..	..	..	..	..
Mineralogy	1	2	..	..	..	..	..	..	..	..	..	..
Music	..	..	..	..	..	..	..	3	..	..	..	..
Pathological Chemistry	4	..	..	..	..	..	..	..	..	..	..	..
Pedagogy	..	..	..	..	..	..	46	..	..	..	..	..
Pharmacology	2	..	..	..	..	..	..	..	..	..	..	1
Philosophy	12	20	..	..	..	..	..	..	..	..	27	..
Physics	10	22	..	..	..	..	..	..	..	..	4	..
Physiology	4	5	..	..	..	..	..	..	..	..	..	..
Physiological Hygiene	3	..	..	..	..	..	..	..	..	..	..	..
Political Science	5	7	..	..	..	..	..	..	..	1	10	..
Preventive Dentistry	1	..	..	..	..	..	..	..	..	..	1	..
Professional Degrees	..	..	..	..	1	1	..	..	..	..	..	..
Psychiatry	..	..	..	..	..	..	..	..	..	..	1	..
Psychology	6	14	..	..	..	..	..	..	..	..	17	2
Romance Languages	..	8	..	..	..	..	..	..	..	..	19	..
Semitic Languages	..	4	..	..	..	..	..	..	..	..	4	..
Surgery	..	..	3	..	..	..	..	..	..	..	..	..
Special Committees	..	6	..	..	..	..	..	..	..	1	13	..
Totals	118	173	3	12	1	1	46	3	1	20	199	6

(*h*) Results of the Annual Examinations

Faculty of Arts

First Year

Course	University of Toronto	Univ. Coll.	Vic. Coll.	Trin. Coll.	St. M. Coll.	TOTALS	Passed	Conditioned	Failed	Transferred	Aegrotat	Debarred
Pass	..	140	111	50	94	395	254	70	71	..	6	77
Supplementals	..	37	17	10	13	77	52	25	..	..	..	..
Classics	..	3	6	..	1	10	8	1	1	..	..	..
English Language and Literature	..	18	20	4	5	47	36	2	9	9	..	2
Latin (French or Greek Option)	..	1	2	2	2	7	7	..	..	..	..	..
Modern Languages	..	21	13	7	7	42	31	4	7	5	..	..
Oriental Languages	..	1	..	..	..	1	..	1	..	..	..	..
Fine Art	..	5	2	..	1	8	7	..	1	1	..	1
Law	..	26	5	1	1	33	27	5	1	1	..	3
Social and Philosophical Studies	..	47	16	14	5	82	56	13	13	10	2	2
Music	..	..	7	1	..	8	6	..	2	2	..	2
Philosophy (English or Hisory Option)	..	4	4	2	6	16	11	2	3	3	..	..
Mathematics and Physics	..	17	19	5	4	45	29	10	6	1	..	2
Science	..	25	12	8	6	51	39	6	6	2	..	2
Household Economics	..	28	18	4	5	55	39	7	9	8	3	3
Commerce and Finance	..	38	19	13	3	73	38	17	18	8	1	4
Occasional Students	5	3	..	..	1	9	8	1	..	..	..	..
Totals	5	414	271	121	148	959	648	164	147	50	12	98

Second Year

Course	University of Toronto	Univ. Coll.	Vic. Coll.	Trin. Coll.	St. M. Coll.	TOTALS	Passed	Conditioned	Failed	Aegrotat	Debarred
Pass	..	147	90	52	65	354	259	65	30	10	19
Supplementals	..	24	8	11	6	49	41	8	..	..	..
Classics	..	3	3	3	1	10	10	..	..	..	..
English Language and Literature	..	10	17	1	1	29	21	2	6	..	..
Greek and Hebrew	..	..	1	..	..	1	1	..	..	..	..
Latin (French or Greek Option) Div. I.	..	1	2	..	6	9	7	..	2	..	..
Modern Languages	..	16	19	3	5	43	35	1	7	..	..
Oriental Languages	..	..	2	..	..	2	2	..	..	..	..
Fine Art	..	3	2	1	..	6	6	..	..	..	..
Law	..	14	6	6	1	27	24	1	2	1	..
Modern History	..	8	5	5	..	18	18	..	..	1	..
Philosophy	..	3	1	..	2	6	5	1	..	2	1
Philosophy (English or Hist. Option)	..	1	1	4	2	8	7	..	1	1	..
Political Science and Economics	..	9	11	11	1	32	24	2	6	1	..
Psychology	..	11	2	..	..	13	13	..	..	..	..
Sociology	..	7	7	2	..	16	14	1	1	2	..
Mathematics and Physics	..	12	9	3	..	24	13	1	10	..	..
Physics and Chemistry	..	2	2	..	1	5	3	..	2	..	..
Biological and Medical Sciences	..	7	5	2	..	14	6	6	2	..	2
Biology	..	1	2	1	..	4	3	..	1	1	..
Biology and Physics	..	1	1	..	..	2	1	..	1	..	..
Chemistry	..	5	6	..	1	12	6	3	3	..	1
Chemistry, Mineralogy and Geology	..	2	7	1	..	10	5	2	3	..	..
Geology and Mineralogy	..	3	5	..	..	8	2	2	4	..	..
Household Economics	..	16	16	1	..	33	24	2	7	1	2
Physiology and Biochemistry	..	1	1	..	..	2	2	..	..	1	..
Commerce and Finance	..	22	13	12	1	48	34	2	12	..	3
Occasional Students	5	3	..	..	..	8	6	2	..	..	..
Registered twice	..	..	1	..	..	1	1	..	..	..	..
Totals	5	332	243	119	93	792	591	101	100	21	28

Third Year

Course	University of Toronto	Univ. Coll.	Vic. Coll.	Trin. Coll.	St. M. Coll.	TOTALS	Passed	Conditioned	Failed	Aegrotat	Debarred
Pass	..	100	92	36	75	303	236	46	21	..	..
Supplementals	..	6	8	4	..	18	12	6	..	..	..
General	..	7	16	5	3	31	28	..	3	..	..
Classics	..	6	1	..	..	7	6	..	1	1	..
Latin (French or Greek Option), Div. 1	..	1	3	1	2	7	7	..	..	..	..
Modern Languages	..	15	16	8	4	43	42	1	..	..	..
Oriental Languages	..	2	..	..	..	2	1	1	..	..	..
English and History	..	6	12	3	4	25	24	..	1	..	..
Law	..	23	2	3	..	28	25	2	1	..	..
Modern History	..	4	2	4	..	10	10	..	..	..	..
Philosophy	..	1	4	1	8	14	10	3	1	..	..
Philosophy (English or History Option)	..	3	5	4	7	19	19	..	..	..	..
Political Science and Economics	..	7	6	11	1	25	24	1	..	..	1
Psychology	..	4	5	1	..	10	7	1	2	2	..
Sociology	..	5	8	..	..	13	13	..	..	..	..
Mathematics and Physics. Div. I	..	1	3	1	..	5	..	2	3	..	..
Mathematics and Physics, Div. II	..	5	1	1	1	8	7	1	..	..	..
Mathematics and Physics Div. III	..	1	..	..	..	1	1	..	..	..	..
Mathemetics and Physics, Div. IV and V	..	6	2	1	..	9	6	1	2	..	..
Physics and Chemistry	..	3	..	..	..	3	3	..	..	..	1
Physics and Geology	..	1	..	..	..	1	1	..	..	..	1
Biological and Medical Sciences	..	4	6	1	1	12	11	..	1	..	..
Biology	..	2	1	2	..	5	5	..	..	..	..
Chemistry	..	4	1	2	..	7	6	1	..	..	..
Chemistry, Mineralogy and Geology, Div. II	..	3	2	1	..	6	5	1	..	..	..
Geology and Mineralogy	..	2	2	..	..	4	3	1	..	..	1
Household Economics	..	15	13	2	..	30	21	6	3	1	1
Physics	..	2	1	..	1	4	2	2	..	..	..
Physiology and Biochemistry	..	3	1	..	..	4	4	..	..	..	..
Commerce and Finance	..	23	18	7	3	51	35	13	3	..	1
Occasional Students	2	1	..	..	..	3	3	..	..	..	..
Totals	2	266	231	99	110	708	577	89	42	4	6

Fourth Year

Course	University of Toronto	Univ. Coll.	Vic. Coll.	Trin. Coll.	St. M. Coll.	TOTALS	Passed	Conditioned	Failed	Aegrotat	Degree without Honours
General	..	5	11	2	..	18	17	..	1	..	..
Classics	..	2	4	5	1	12	12	..	..	..	1
Latin (French or Greek Option), Div. I	..	..	..	2	1	3	3	..	..	..	..
Latin (French or Greek Option), Div. II.	..	1	3	..	..	4	4	..	..	..	..
Modern Languages	..	22	17	1	4	44	44	..	..	..	1
Oriental Languages	..	3	..	..	..	3	3	..	..	..	..
English and History	..	9	10	3	2	24	24	..	..	..	1
Law	..	17	6	4	1	28	28	..	..	..	2
Modern History	..	1	3	1	..	5	5	..	..	..	..
Philosophy	..	2	1	..	4	7	7	..	..	..	..
Philosophy (English or History Option)	..	4	10	2	2	18	17	1	..	..	1
Political Science and Economics	..	17	4	6	1	28	28	..	..	1	1
Psychology	..	3	4	1	..	8	8	..	..	1	..
Sociology	..	5	8	..	..	13	13	..	..	..	..
Mathematics and Physics, Div. I.	..	4	2	1	1	8	8	..	..	..	..
Mathematics and Physics, Div. II	..	3	2	..	..	5	5	..	..	..	..
Mathematics and Physics, Div. III	..	1	..	..	..	1	1	..	..	..	..
Mathematics and Physics, Div. IV	..	1	1	1	..	3	3	..	..	..	..
Mathematics and Physics, Div. V.	..	..	1	..	..	1	1	..	..	..	..
Physics and Chemistry	..	..	1	2	..	3	3	..	..	..	..
Biological and Medical Sciences	..	9	3	2	2	16	16	..	..	1	3
Biology	..	1	1	..	..	2	2	..	..	..	..
Chemistry	..	3	5	2	..	10	9	..	1	..	..
Chemistry, Mineralogy and Geology, Div. I	..	..	..	1	..	1	1	..	..	..	..
Chemistry, Mineralogy and Geology, Div. II	..	2	1	1	..	4	4	..	..	..	..
Geology and Mineralogy	..	1	2	1	..	4	4	..	..	..	..
Household Economics	..	7	15	2	2	26	26	..	..	..	..
Physics	..	..	1	1	..	2	1	..	1	..	..
Physiology and Biochemistry	..	..	2	..	..	2	2	..	..	..	..
Science (General)	..	..	1	..	..	1	1	..	..	..	..
Commerce and Finance	..	20	6	2	3	31	31	..	..	..	1
Occasional Students	1	..	..	..	..	1	1	..	..	..	..
Totals	1	143	125	43	24	336	332	1	3	3	11

Pass Course for Teachers

	Passed	Conditioned	Total
August Examination	528	126	654
May Examination	313	93	406
	841	219	1,060

Faculty of Medicine

	Passed	Conditioned	Failed
First Year	68	8	64
Second Year	83	21	16
Third Year	74	44	9
Fourth Year	114	21	2
Fifth Year	116	18	1
Sixth Year	104	4	5
Candidates for Degree of B.Sc. (Med.)	6	..	..
Candidates for Diploma in Public Health	18	..	..
Totals	583	116	97

Faculty of Applied Science and Engineering

	Passed with Honours	Passed	Conditioned	Failed
First Year—				
Civil Engineering	2	10	9	8
Mining Engineering	2	26	11	8
Mechanical Engineering	5	22	14	8
Architecture	2	..	1	1
Engineering Physics	8	3	1	3
Chemical Engineering	9	17	20	20
Electrical Engineering	7	7	11	9
Metallurgical Engineering	5	5	5	3
Mining Geology	..	4	3	..
Second Year—				
Civil Engineering	2	5	5	1
Mining Engineering	10	20	10	2
Mechanical Engineering	3	8	14	5
Architecture	1	2	..	..
Engineering Physics	2	2	6	3
Chemical Engineering	10	9	25	8
Electrical Engineering	3	11	15	5
Metallurgical Engineering	4	20	5	4
Mining Geology	..	1	..	..
Third Year—				
Civil Engineering	1	7	8	3
Mininig Engineering	4	15	10	1
Mechanical Engineering	4	8	5	3
Architecture	..	2	..	..
Engineering Physics	2	3	1	..
Chemical Engineering	8	26	17	4
Electrical Engineering	6	9	7	1
Metallurgical Engineering	4	4	5	1
Mining Geology	..	2	..	..
Fourth Year—				
Civil Engineering	1	3	..	..
Mining Engineering	7	18	7	..
Mechanical Engineering	4	11	9	..
Architecture	3	3	..	..
Engineering Physics	2	2	2	..
Chemical Engineering	14	23	3	..
Electrical Engineering	5	13	4	1
Metallurgical Engineering	1	11	..	..
Fifth Year—				
Architecture	3	5	1	..
Totals	144	337	234	102

Faculty of Household Science

	Passed	Conditioned	Failed
First Year	2	1	2
Second Year	2	..	3
Third Year	12	5	5
Fourth Year	3	1	..
Occasional Students	1	..	..
Supplementals	1	1	..
Totals	21	8	10

Ontario College of Education

	Passed	Failed
*High School Assistants' Course	252	..
Specialists' Courses	117	..
First Class Public School Course	36	..
Elementary Art Course	22	..
Elementary Commercial Course (passed in part)	29	..
Elementary Home Economics	18	..
Elementary Music Course	36	..
Elementary Physical Education Course	52	..
Elementary Shop Work	7	..
Intermediate Art Course	5	..
Intermediate Home Economics	21	..
Intermediate Music Course	36	..
Librarians' Course—		
Candidates for Degree of B.L.S.	50	..
Candidates for Diploma	8	..
Bachelor of Pedagogy Course—		
Candidates for Degree of B.Paed.	27	..
Passed in part	75	..
Number who failed in whole or part	..	158
Totals	791	158

* Many of these are included among those who passed or failed in the other courses in this list.

Faculty of Forestry

	Passed	Conditioned	Deferred	Failed
First Year	5	..	..	3
Second Year	9	..	1	2
Third Year	4	..	1	..
Fourth Year	6	..	..	..
Totals	24	..	2	5

Faculty of Music

	Passed	Conditioned	Failed
First Year	6	3	..
Second Year	12	9	3
Third Year	10	7	7
Totals	28	19	10

Faculty of Dentistry

	Passed	Conditioned	Failed
First Year	22	9	..
Second Year	38	11	..
Third Year	25	13	1
Fourth Year	32	4	..
Fifth Year	31	2	1
Dental Nurses	18	1	..
Total	166	40	2

Departments

The numbers examined in the different departments of the University, including those persons granted standing for military service, were as follows:

Arts:		
Fourth Year	336	
Third Year	708	
Second Year	792	
First Year	959	
Pass Course for Teachers	1,060	
Graduates (Specialist Standing)	54	
		3.909
Medicine:		
Sixth Year	113	
Fifth Year	135	
Fourth Year	137	
Third Year	127	
Second Year	120	
First Year	140	
Candidates for Degree of B.Sc. (Med.)	6	
Candidates for Diploma in Public Health	18	
		796
Applied Science and Engineering:		
Fifth Year	8	
Fourth Year	147	
Third Year	171	
Second Year	220	
First Year	269	
		815
Household Science		38
Education		628
Forestry		31
Music		57
Graduate Studies		500
Dentistry		208
Social Science		61
School of Nursing		106
Physical Education for Women		24
University Extension:		
Occupational Therapy		40
Physiotherapy		34
Law		7
Pharmacy		248
Agriculture		117
Veterinary Science		54
Local Examinations in Music		13.482

(*i*) Admission to Degrees:

	Men	Women	Total
LL.D. (Honorary)	2	...	2
Ph.D.	30	5	35
M.A.	83	37	120
M.S.	3	...	3
M.A.Sc.	5	...	5
C.E.	1	...	1
E.E.	1	...	1
D.Paed.	1	...	1
M.S.A.	9	...	9
B.A.	326	296	622
B.Com.	30	...	30
M.D.	121	10	131
B.Sc. (Med.)	6	...	6
B.A.Sc.	164	...	164
B.Arch.	9	2	11
B.H.Sc.	...	16	16
B.Paed	25	2	27
B.L.S.	1	49	50
B.Sc.F.	6	...	6
Mus. Bac.	3	6	9
D.D.S.	30	1	31
D.Sc. (Dent.)	3	...	3
LL.B.	1	...	1
B.S.A.	105	1	106
B.V.Sc.	51	1	52
D.V.Sc.	1	...	1
Phm.B.	85	6	91
Totals	1,102	432	1,534

(*j*) Admission to Diplomas and Certificates

	Men	Women	Total
Dental Nursing	..	21	21
Librarianship	..	8	8
Occupational Therapy	..	16	16
Physical Education	..	5	5
Physiotherapy	..	15	15
Psychiatry	9	..	9
Public Health	17	..	17
Public Health Nursing	..	101	101
Radiology	1	..	1
Social Science	8	17	25
Totals	35	183	218

(*k*) Geographical Distribution of Students

FACULTY OF ARTS

	University of Toronto	University College	Victoria College	Trinity College	St. Michael's College	Totals
Ontario: (1) Province	564	436	349	126	98	1,573
(2) Toronto	642	606	485	224	148	2,105
Nova Scotia	7	2	1	..	..	10
New Brunswick	1	1	1	..	..	3
Prince Edward Island	..	..	..	..	..	..
Quebec	3	5	5	1	1	15
Manitoba	9	4	1	1	..	15
Saskatchewan	7	14	8	1	..	30
Alberta	8	13	2	1	6	30
British Columbia	7	5	2	3	3	20
United States	1	14	3	2	112	132
Elsewhere	..	12	12	4	2	30
Totals	1,249	1,112	869	363	370	3,963

THE UNIVERSITY

	Faculty of Arts	Faculty of Medicine	Faculty of Applied Science and Engineering	Faculty of Household Science	Ontario College of Education	Faculty of Forestry	Faculty of Music	School of Graduate Studies	Faculty of Dentistry	Department of Social Science	School of Nursing	Physical Education for Women	Occupational Therapy	Physiotherapy	Registered Twice	TOTALS
Ontario:																
(1) Province	1.573	296	328	20	461	13	20	162	90	15	248	4	24	11	14	3,251
(2) Toronto	2,105	459	466	15	189	13	18	259	72	20	160	19	10	12	31	3,786
Nova Scotia	10	2	1	..	11	..	..	17	..	3	6	..	1	..	..	51
New Brunswick	3	6	..	..	4	..	..	14	1	1	6	..	..	..	1	34
Prince Edward Island....	..	2	..	..	..	..	..	..	..	1	..	..	..	..	..	3
Quebec	15	8	3	..	3	3	4	6	1	1	5	..	2	..	1	50
Manitoba	15	4	7	..	6	1	1	28	8	9	8	..	1	3	..	91
Saskatchewan	30	25	9	2	14	1	..	23	22	7	17	..	1	7	..	158
Alberta	30	9	8	1	3	..	..	11	1	2	3	..	..	1	1	68
British Columbia	20	19	3	3	13	..	3	12	2	4	2	1	1	..	..	83
United States	132	4	5	..	..	..	3	32	6	..	2	..	..	..	..	184
Elsewhere	30	9	3	..	5	..	..	19	9	1	9	..	..	..	3	82
Totals...........	3,963	843	833	41	709	31	49	583	212	64	466	24	40	34	51	7,841

THE PROVINCE OF ONTARIO

	Faculty of Arts	Faculty of Medicine	Faculty of Applied Science and Engineering	Faculty of Household Science	Ontario College of Education	Faculty of Forestry	Faculty of Music	School of Graduate Studies	Faculty of Dentistry	Department of Social Science	School of Nursing	Physical Education for Women	Occupational Therapy	Physiotherapy	Registered Twice	TOTALS
Algoma	15	10	5	..	6	..	2	..	2	..	2	..	..	..	..	42
Brant	33	10	9	1	6	1	1	7	..	1	7	..	1	1	1	77
Bruce	27	3	3	..	6	..	..	1	5	..	2	..	1	..	..	48
Carleton	79	12	7	1	29	..	1	10	6	..	16	2	..	..	4	159
Cochrane	19	3	8	..	1	..	..	..	2	..	..	..	..	..	..	33
Dufferin	22	1	2	..	4	..	1	1	..	..	1	..	..	..	..	32
Dundas	3	..	4	5	..	..	..	..	..	..	..	..	..	..	..	12
Durham	27	2	1	..	5	..	..	1	1	..	2	..	2	..	..	41
Elgin	11	1	4	1	11	..	..	2	3	..	3	..	..	..	..	36
Essex	46	10	14	..	29	..	1	6	4	..	6	..	1	..	..	117
Frontenac	7	1	..	..	5	..	..	1	1	..	4	..	1	..	..	20
Glengarry	2	1	1	..	3	..	..	..	1	1	..	..	..	..	..	9
Grenville	4	1	..	1	3	..	..	..	..	..	1	..	..	..	..	10
Grey	45	4	10	..	13	2	..	4	2	..	4	..	..	..	..	84
Haldimand	13	1	..	..	5	..	..	5	..	..	1	..	1	1	..	27
Haliburton	1	1	..	..	..	..	..	..	..	1	..	..	..	..	..	3
Halton	28	4	10	..	8	..	..	1	2	..	9	..	3	..	..	65
Hastings	23	2	2	..	7	1	..	..	3	..	6	..	..	..	..	44
Huron	38	5	1	..	13	1	..	4	..	..	6	..	..	..	..	68
Kenora	2	3	1	..	1	..	..	..	1	..	..	..	..	..	1	7
Kent	14	9	11	1	9	1	1	3	3	1	6	..	..	..	1	58
Lambton	27	6	7	2	8	..	..	1	4	..	2	..	..	..	..	57
Lanark	10	1	4	..	4	..	..	2	..	1	1	..	1	..	..	24
Leeds	11	2	..	..	7	..	..	1	2	..	3	..	..	..	..	26
Lennox & Addington	4	..	..	..	3	..	..	..	..	..	2	..	..	..	..	9
Lincoln	44	10	20	..	6	..	..	6	4	..	13	..	2	1	..	106
Manitoulin	3	..	..	..	..	..	..	..	..	..	..	1	..	..	..	4
Middlesex	19	2	5	..	34	..	1	9	1	..	13	..	..	..	1	83
Muskoka	18	3	2	2	4	..	2	1	..	..	4	..	..	..	..	36
Nipissing	19	17	8	..	8	..	1	1	4	..	5	..	1	2	..	66
Norfolk	11	4	4	1	2	..	..	1	4	..	1	..	1	..	..	29
Northumberland	19	3	5	..	5	..	1	1	3	..	1	..	..	..	..	38
Ontario	51	12	5	..	9	..	..	4	3	2	12	..	..	..	..	98
Oxford	23	9	6	..	6	..	1	4	1	..	6	..	..	1	..	57
Parry Sound	16	..	2	..	4	..	..	1	2	..	3	..	1	..	..	29
Peel	68	5	14	1	3	..	..	3	..	2	9	..	..	..	..	105
Perth	45	8	5	..	14	..	..	1	1	..	4	..	1	1	..	80
Peterborough	27	5	4	..	7	..	..	2	1	..	10	..	..	1	..	57
Prescott	2	1	..	..	5	..	..	..	..	..	..	1	..	..	1	8
Prince Edward	10	1	1	..	4	..	..	..	1	..	1	..	..	..	..	18
Rainy River	7	5	..	..	1	..	..	1	..	..	..	..	..	..	..	14
Renfrew	18	1	1	..	6	..	..	2	..	..	4	..	1	..	..	33
Russell	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	2
Simcoe	96	10	17	2	8	1	1	7	7	..	9	..	2	2	2	160
Stormont	7	1	1	..	2	..	..	..	..	..	2	..	..	..	..	13
Sudbury	17	..	2	..	1	..	..	..	..	2	..	..	..	..	..	22
Thunder Bay	43	3	7	..	5	..	1	4	3	..	3	..	..	..	..	69
Timiskaming	20	7	6	2	6	1	..	1	..	..	8	..	..	..	..	51
Victoria	32	4	2	..	4	1	..	..	1	..	..	..	..	..	..	44
Waterloo	48	14	12	3	19	..	..	2	3	..	7	..	..	..	..	108
Welland	45	15	20	..	13	1	2	6	1	1	8	..	..	..	..	113
Wellington	58	14	11	..	10	..	..	20	..	2	8	..	..	..	..	123
Wentworth	75	20	24	2	55	..	2	24	5	..	13	..	2	1	2	221
York	221	29	40	..	27	3	1	11	2	1	20	..	2	..	1	356
Toronto	2,105	459	466	15	189	13	18	259	72	20	160	19	10	12	31	3.786
Totals	3.678	755	794	35	650	26	38	421	162	35	408	23	34	23	45	7.037

UNIVERSITY OF TORONTO

SUPERINTENDENT'S OFFICE

SUPERINTENDENT'S REPORT

1937-38

NEW CONSTRUCTION

There has been no new construction of a major nature started during the year, but additions to the Royal Ontario Museum, the Hygiene Building, and at the Connaught Laboratories Farm bring the expenditure under this item to approximately $60,000.00.

BUILDINGS (MAINTENANCE)

The expenditure for Repairs and Renewals on University buildings and the Royal Ontario Museum amounted to approximately $83,000.00, which is less than one-half of one percent. of the value of the buildings. Until such time as this amount, which is used largely in maintaining the fabric and mechanical services, can be increased, such items as lighting and decoration cannot be kept up to the desired standards.

The regular yearly practice of testing all fire hose has been followed, and the necessary replacements made. Chemical extinguishers have all been inspected and special extinguishers provided for unusual hazards. I wish to acknowledge the co-operation of the Toronto Fire Department in dealing with our problems.

In addition to the 58 buildings directly supervised by my office, heat and electricity are supplied to Victoria University, Wycliffe College and Knox College, and a small amount of power to Trinity College.

The expenditure for fuel was approximately $105,000.00. The consumption of electricity continues to increase. Due to the lack of funds and the inadequacy of our generating and distribution systems, this growth is checked as much as possible, even to the extent of lagging behind accepted practice. Funds are being made available next year which will enable us to increase the voltage on some of our system, where low voltage due to overload has made the lighting very poor.

EMPLOYEES AND WORKSHOPS

The average number of employees working for the office, exclusive of contracts, was 274, tradesmen accounting for 80 of this number. The merchandise distributed through the Superintendent's Stores amounted to approximately $101,000.00. The salary and wage items amounted to approximately $324,000.00. This figure includes services rendered through my office to Connaught Laboratories, Hart House, the Athletic Association, etc., the Royal Ontario Museum, and the colleges.

PURCHASING

During the year, 9,509 departmental orders and 7,293 Superintendent's Stores and work orders, a total of 16,802, were sent out, and in consequence 23,265 accounts were passed for payment. These purchases involved the passing of 1,336 customs entries handled within the office. In addition, 6,381 accounts for work done for separate financial entities were sent out for payment. Accounts are passed promptly for payment, so that all possible discounts are obtained. Every effort is made to obtain the benefits to which the University is properly entitled under the Customs, Sales and Excise Acts.

POST OFFICE

During the year, the turnover in the branch Post Office in the University amounted to approximately $36,600.00, of which the sale of postage stamps amounted to approximately $23.800.00. The University derived a revenue of $1,158.95 from this office.

POLICE AND WATCHMEN

Again the Police Force has been successful in handling the problems created by the public, and its relationship with the student body has been cordial and effective at the same time. The watchmen's service has been carefully supervised and daily reports are carefully checked.

I wish also to acknowledge our continued indebtedness to the City Police for their willing co-operation at all times.

CENTRAL PLANT

Each year the inadequacy of our present plant, built in 1911, and the necessity for a new plant, becomes more apparent. With inadequate generating and distribution capacity for both steam and electricity, we have had to provide separate units and services with consequently increased operating costs. We see no solution except a major expenditure for a new plant.

The amount of radiation heated from the Central Plant, exclusive of high pressure service, was 351,359 square feet, as against 348,140 square feet for the previous year. The total cost of operation was $144,385.35, as against $134,894.94 for the previous year. The total unit cost for heat and light was 41.0 cents per square foot of radiation, as against 38.7 cents for the previous year. The amount of 41.0 cents was made up of 23.4 cents for heat and 17.6 cents for light and power. The average temperature, October to May inclusive, was 3.1 degrees above the average, against 3.3 degrees above the average for the same period in the previous year. The increased cost is accounted for by the higher price of coal and increased demands for electrical energy.

Comparative tables, showing the operation of the Central Plant and the distribution of charges for 1936-37 and 1937-38, are attached.

A. D. LEPAN,
Superintendent.

October 28th, 1938.

POWER HOUSE

COAL	1936-37	1937-38
Maximum daily consumption	90 tons	96 tons
Maximum weekly consumption	527 tons	569 tons
Average daily consumption—		
September	13 tons	26 tons
October	40 tons	43 tons
November	60 tons	55 tons
December	61 tons	66 tons
January	61 tons	75 tons
February	65 tons	72 tons
March	62 tons	63 tons
April	50 tons	48 tons
May	25 tons	29 tons
June	10 tons	10 tons
Consumption—Central Plant	13,315 tons	14.221 tons
Auxiliary Plant. Museum Area	1,174 tons	1,127 tons
Total consumption	14.489 tons	15.348 tons
Total cost of Operation	$134.894.94	$144.385.35
Load in square feet of radiation	348.140	351.359
Light and Power Charges	$ 58.152.83	$ 62.038.46
Cost of Heat	$ 76.742.11	$ 82.346.89
Cost of heat per square foot of radiation	22.0c	23.4c

NOTE: In this distribution of cost. no allowance is made for high pressure steam supplied.

	1936-37	1937-38
October	49.0 — 2.4 above average	47.4 — 0.8 above average
November	34.3 — 1.7 below average	38.6 — 2.6 above average
December	31.5 — 5.3 above average	27.4 — 1.2 above average
January	31.2 — 9.4 above average	22.3 — .5 above average
February	27.9 — 5.7 above average	27.2 — 5.0 above average
March	28.6 — 0.1 below average	35.8 — 7.1 above average
April	43.2 — 2.0 above average	46.2 — 5.0 above average
May	56.5 — 4.0 above average	55.2 — 2.8 above average
Yearly Average	37.7 — 3.3 above average	37.5 — 3.1 above average

COMPARATIVE STATEMENT OF DISTRIBUTION OF COST OF OPERATING POWER HOUSE

BUILDING	1936–37 Sq. Ft. Radiation	1936–37 Percentage Charge	1937–38 Sq. Ft. Radiation	1937–38 Percentage Charge	1936–37 Light	1936–37 Heat	1937–38 Light	1937–38 Heat
University College	14,958	5.550	14,958	5.450	$ 922 02	$ 4,259 19	$ 1,141 58	$ 4,487 91
Psychology					80 22		91 82	
Hart House	29,309	9.275	29,430	9.368	10,478 76	7,117 83	10,632 68	7,714 26
Memorial Tower	462	.133	462	.132		102 07		108 70
Library	10,931	2.760	10,931	2.685	622 20	2,118 08	1,274 60	2,211 01
Medical	11,599		11,599		1,766 40	2,620 87	1,595 60	2,838 80
Anatomy	8,205	5.831	8,205	5.886	402 00	1,853 96	365 40	2,008 14
Biological	8,389	2.195	8,454	2.202	849 98	1,684 49	910 24	1,813 28
Engineering	9,608	3.035	9,608	2.965	933 40	2,329 12	960 00	2,441 58
Thermodynamics	4,991	1.683	4,991	1.769	341 40	1,291 57	362 00	1,456 72
Observatory	748	.176	748	.177	131 06	135 07	148 96	145 75
Mining	15,180	4.781	15,180	4.701	2,302 80	3,669 04	2,538 60	3,871 13
Mill	5,704	1.661	5,704	1.558	208 00	1,274 69	270 00	1,282 96
Convocation Hall	6,202		6,202			1,320 34		1,395 36
Simcoe Hall	6,440	3.507	6,440	3.454	1,174 86	1,371 01	1,437 34	1,448 90
Botany	11,284	3.085	11,284	2.955	2,760 80	2,367 49	2,348 80	2,433 35
Men's Residences	9,253	3.086	9,253	3.017	925 80	2,368 26	858 80	2,484 40
Whitney Hall	9,230		9,230		2,636 80	2,165 95	2,768 00	2,291 44
U. C. Women's Union	3,328	3.840	3,328	3.786	207 00	780 95	175 40	826 21
Household Science	8,130	2.627	8,130	2.485	548 80	2,016 01	607 34	2,046 32
Electrical	9,527	2.343	9,527	2.450	460 42	1,798 07	446 50	2,017 50
Electrical Engineering Department					201 52		175 44	
Hygiene	15,937	4.591	16,011	4.586	10,334 00	3,523 23	10,512 00	3,776 43
No. 45 St. George					39 18		44 96	
Military Studies					130 00		151 82	
U. C. Men's Residence					229 40		219 20	
No. 43 St. George					26 06		18 50	
Baldwin House					154 12		177 96	
Economics					6 00		6 00	
Grounds					331 88		300 42	
Chemical	6,196		6,196		983 20	1,210 06	1,264 20	1,313 82
McLennan Lab.	15,748		15,748		1,406 53	3,075 53	2,007 88	3,339 26
Forestry	3,804		3,804		65 20	742 91	76 80	806 62
Stores	628		628		172 24	122 65	253 86	133 16
Press	5,123	8.016	5,123	8.111	729 40	1,000 50	857 40	1,086 30

BUILDING	1936–37 Sq. Ft. Radiation	1936–37 Percentage Charge	1937–38 Sq. Ft. Radiation	1937–38 Percentage Charge	1936–37 Light	1936–37 Heat	1937–38 Light	1937–38 Heat
Museum	46,401	10.005	48,760	10.821	$ 5,378 00	$ 7,678 05	$5,932 40	$ 8 910 76
Arena	2,564	1.053	3,164	1.204	3,573 12	808 09	3,736 26	991 46
Stadium					117 20		231 74	
Hart House Dining Hall					263 40		231 40	
Wycliffe College	13,122	4.071	13,122	4.047	530 60	3,124 17	604 60	3,332 58
Knox College	16,071	4.545	16,071	4.512	1,642 00	3,487 93	1,926 80	3,715 49
Trinity College					20 84		10 92	
Victoria College	8,430		8,430		402 08	1,976 80	438 50	2,031 07
Victoria College Library	3,854		3,854		558 88	903 75	587 94	928 56
Burwash Hall	8,659		8,659		1,199 10	2,030 50	1,219 24	2,086 24
Burwash Dining Hall					405 46		408 98	
Emmanuel College	6,800		6,800		303 00	1,594 57	286 00	1,638 35
Emmanuel College Residence	6,695	10.523	6,695	10 076	601 00	1,569 95	681 20	1,613 05
Annesley Hall	4,630	1 628	4,630	1.603	596 70	1,249 36	739 38	1,320 02
	348,140	100.000	351,359	100.000	$ 58,152 83	$ 76,742 11	$62,038 46	$ 82,346 89

AUDITOR'S CERTIFICATE

Toronto, 25th November, 1938.

To the Governors of the University of Toronto:

GENTLEMEN:

I have verified the attached Balance Sheet of the University dated 30th June, 1938, and Schedules 1 to 10, and report that all the transactions of the year upon the Revenue and Capital Accounts have been duly audited and found correct.

The securities representing your investments are held in safekeeping by your bankers, The Canadian Bank of Commerce, and were produced for my examination on 30th June, 1938, and also at another time during the year and found to be in agreement with the records kept by the Bursar. Your securities consist largely of bonds issued or guaranteed by the Dominion of Canada and by the Province of Ontario and bonds of Ontario municipalities, and also certain corporation and other securities received as bequests. Their approximate market value as at 30th June, 1938, was greater than their book value by $875,432.56.

Bonds of the following municipalities which are included in your investments are in arrears of interest from one to six years or interest payments are being received at reduced rates:

	Par Value	Book Value
Town of Mimico 5½% 1942-1945	$21.000.00	$21.919.25
Essex Border Utilities 5½% 1945-1947	19,047.60	19.802.72
Town of Weston 5% 1936-1953	51,041.94	50.519.25
Town of Bridgeburg 5½% 1936-1946	23,104.01	23.746.75
Township of East York 5% 1944-1946	30.000.00	29.829.76
Township of York 5% 1935-1936	16.000.00	15.942.20
Township of Scarborough 5% 1943 1957	73.697.27	74.765.96

I also report that no income was received from certain non-trustee securities which came to you from the Wallberg and Whitney bequests.

The Bursar's records are well kept and all Endowment and Trust Funds properly accounted for.

Yours faithfully,

G. T. CLARKSON, F. C. A.,
Auditor.

FINANCIAL STATEMENT

BALANCE SHEET, 30th JUNE, 1938

FUNDS AND LIAB'LITIES

General Endowment	Schedule 1	$13.248.791 61	
Specific Endowments (Scholarships, Prizes, etc.)	" 2	537.488 62	
Trust Funds	" 3	6,820.960 43	
Pension and Retirement Funds	" 4	1.161.524 93	
Annuity Debentures	" 5	1.133.704 27	
Contingent Funds, etc.	" 6	89.750 81	
Fees paid in advance		1.891 00	
Royal College of Dental Surgeons		50,000 00	
			$23.044.111 67

ASSETS

Site Lands, Buildings and Contents	Schedule 7	$12,095,661 43	
Unproductive Lands	" 8	58,622 40	
Leased Properties	" 9	724.385 71	
Investments, Cash and Accounts Receivable	" 10	9.426.026 15	
Royal Ontario Museum Investment		248.376 30	
Ontario Government Annuities (16 George V, Cap. 69)		78.004 75	
Ontario Government Annuities (18 George V, Cap. 55)		402,747 83	
Superintendent's Stores	Appendix IV	10.287 10	
			$23.044.111 67

NOTE: This statement does not include any assets or liabilities of The Toronto Conservatory of Music.

SCHEDULE 1

GENERAL ENDOWMENT

Additions for 1937-38:			
Annuity debentures:			
Portion of 1937-38 instalments reducing principal:			
Twenty-ninth instalment, issue of July, 1909	$ 15,777 34		
Twenty-seventh instalment, issue of January, 1911	3,790 00		
Twenty-seventh instalment, issue of January, 1911	8,746 00		
Twenty-third instalment, issue of April, 1915	2,705 48		
Fourteenth instalment, issue of July, 1924	7,106 80		
Ninth instalment, issue of January, 1929	35.744 08		
		$ 73.869 70	
Convocation Hall Advance:			
Restoration from proceeds of Wild Lands Sales, thirty first instalment		91 37	
Land and building, No. 104 St. George Street, purchased from Miles Vokes, area 12,885 sq. feet, at net cost (Schedule 7)		22.498 27	
Hygiene and Public Health Building, increase in valuation after construction of addition at South-east corner (Schedule 7)		25,817 06	
Library proper:			
Additions for year less depreciation (Schedule 7)		29.506 93	
			$ 151.783 33

CONTRA

Reduction in valuation hitherto carried for Scott Street property (Schedule 9)	30,000 00
	$ 121.783 33
Return of 30th June, 1937	13.127,008 28
Return of 30th June, 1938	$13.248.791 61

SCHEDULE 2

SPECIFIC ENDOWMENTS

(Scholarships, Prizes, etc.)

A. A. A. S. Scholarship (Physics, etc.)	$2.350 00
Aggett, Harvey, Memorial (Applied Science)	1.650 25
Aikens (English Literature)	5.306 20
Alexander Lectureship (English Literature)	14.777 17
All Souls' Historical Essay Prize	3.055 52
Armstrong, George H., (History)	2.370 50
B. A. A. S., Medals, etc.	15 94
Bain, H. R., (Matriculation, Applied Science)	600 00
Balfour Lectureship (Surgery)	4.679 84
Balmer, Jean (Science)	1,239 23
Bankers' (Political Science)	1.306 41
Baptie, Margaret W., (Medicine and Science)	4.047 47
Bastedo, Alma Anderson, Memorial Prize (English)	538 65
Bickle, T. H. Bursary	1.008 15
Blake (Matriculation)	31.291 72
Blake (Science and Moderns)	3,750 00
Boiler Inspection and Insurance Company (Applied Science)	150 00
Booth (University Schools)	1.000 51
Brickner, Rabbi (Social Science)	1.034 11

Brock, Margaret A., (Matriculation, English and History)	1,033	44
Brown, George, Memorial (Medical Science)	11,222	88
Brown, George (Modern Languages)	1,128	34
Bruce, Robert (Arts and Medicine)	1,372	22
Chappell, Walter F., Prize (Medicine or Surgery)	501	77
Cockburn, G. R. R., (Greek)	1,050	00
Cody, Florence (Matriculation)	2,539	91
Cody, Henry John (Matriculation)	2.541	22
Cody, Maurice, Memorial (Modern History)	3.355	15
Cody, Maurice, Memorial Prize	1,320	76
Cody, Maurice, Memorial (University Schools)	262	91
Cohen, Arthur (English)	1,000	21
Coleman, Medal (Geology)	500	00
Copp, John, Memorial Fund (Medicine)	5,198	08
Crawford, Allan Rudyard (University Schools)	525	00
Crawford, Henry Job (University Schools)	1.049	61
Darling & Pearson Prize (Architecture)	100	00
Delta Phi Epsilon Bursary	100	00
De Lury, Alfred T., (Mathematics)	3.547	65
Dickenson, Marion E., (Household Science)	5,971	22
Dunlap, David, Memorial (Psychology)	1.325	00
Falconer, Sir Robert, Lectureship	16,417	88
Findlay, J. A., (Mechanical Engineering)	2,351	27
Fulton, Alexander T., (Mathematics and Science)	3,351	30
Gibson (Matriculation)	3,940	81
Gibson (Pass Matriculation)	5,195	28
Glen Mawr Old Girls' Association (English and History)	2.301	52
Goldsmith, Perry (Oto-Laryngology)	3,064	04
Graduate Fellowships (Sundry)	500	00
Grasett Memorial (Classics)	5.360	83
Hardie, William (Matriculation)	2,300	00
Harris, James (Matriculation, University College)	26.101	62
Hastings (Public Health and Nursing)	11,757	19
Henderson, Joseph, Memorial (Matriculation)	2,225	13
Hendry, William John (Obstetrics)	3.008	90
Hollywood Theatre Prizes (French)	50	00
Hutton, Maurice (Classics)	5,521	42
International Mathematical Congress, 1924 (Medals)	2,864	87
Irwin, Herbert W., Memorial (Modern Languages)	1,031	38
Isserman, Rabbi, Prize (Social Science)	899	36
Jenkins (Engineering)	200	00
Kennedy, George (Philosophy)	4	55
Kennedy, Sarah (Household Economics)	4	55
Khakhi University Memorial	3,421	43
Labour Research Institute (Law)	25	00
Laurier, Sir Wilfrid, Memorial (French)	2.222	61
Lawler, Gertrude, Memorial (English and History)	3,207	82
Lawler, Gertrude, Prize (English)	303	97
Lilly, Eli (Medicine)	89	69
Lindsley Fellowship (Geophysics)	400	00
Lister Prize (Surgery)	5,328	70
Lyle Medal (Orientals)	655	41
McCaul Medal (Classics)	543	06
McCharles, AEneas, Prize	21,912	89
McCrae, John (Matriculation)	10.961	19
McCrea, Dent (Law)	100	00
Macdonald, John (Philosophy)	2.380	00
Mackenzie, Alexander, Memorial (Political Science)	16.425	00
Mackenzie, J. J., Fellowship (Pathology)	5.706	87
McLean, J. S., Fellowship (University College)	1.250	00
McLean, J. S., (Matriculation, University College)	8.300	00
MacLennan-MacLeod Memorial Prize (Applied Science)	512	50
MacMurchy, Angus, Medal (Law)	1.036	51
McPhedran, Alexander, Research Fellowship) (Medicine)	30.142	45
Marfleet Pearson Kirkman, Lectureship	8.583	30
Mickle, Charles, Fellowship	28.878	40
Mickle, Ellen, Fellowship	28.953	95
Moss (Classics)	2.000	00
Mulock, Mary (Classics)	2.838	74
Mulock, William (Classic and Mathematics)	2.000	00
Mustard, Wilfred P., (Classics)	3.000	00

Neelands, Florence M., Prize (French)		516 25	
Nesbitt, Wallace, Medals (University Schools)		589 26	
Nipissing Research Fellowship (Mining)		21,684 20	
Northway, John (Psychology Research)		500 00	
Ontario Association of Architects		100 00	
Ontario Hockey Association War Memorial (Matriculation)		2,025 00	
Pakenham Memorial Prize		1,008 07	
Pan-Hellenic Association Prizes (University College)		150 00	
Peters, George A., (Surgery)		3.702 63	
Porter, T. M., (University Schools)		6,017 08	
Porter, T. M., (Corrigan gift) University Schools		1,000 00	
Prince of Wales (Matriculation)		1,050 00	
Public Speaking Association Bursary		50 00	
Putnam, William Lowell, Prize (Mathematics)		505 31	
Quebec Bonne Entente Prize (French)		1,000 00	
Ramsay, William (Physics)		1,136 19	
Ramsay, William (Political Economy)		1,367 00	
Ransom, A. C., (Applied Science)		5.146 36	
Reeve, Anna Howe, Prize (Household Science)		676 53	
Reeve, R. A., Prize (Medicine)		50 00	
Richardson, James H., Research Fellowship (Anatomy)		10,000 00	
Rossin, Julius (Modern Languages)		1,000 00	
Rowell, Langford (Law)		1,012 06	
Rowell, Langford (University Schools)		2,000 00	
Saddington, Ronald S., Medal (Pathology)		80	
Sadowski (Sociology and Social Science)		500 00	
St. Margaret's College Alumnae (Social Science)		75 00	
St. Margaret's College Alumnae Prize (Public Speaking)		625 32	
School of Nursing Bursary		302 86	
Squair French Prose Prize		310 16	
Starr Bequest, Medals		7.852 62	
Strang, Hugh Innis, Memorial (Classics)		2.796 59	
Toronto Women's League of United Synagogue Prize (Medicine)		50 00	
Tracy (Philosophy)		896 35	
Ubukata (Japanese students)		10.670 02	
University College Alumni Scholarship (Matriculation)		50 00	
University College Alumni Prize (Commerce and Finance)		25 00	
University College French Society Prize		25 00	
U. T. S. Engineering		250 00	
Vander Smissen (German)		2.664 68	
Wickett, Emerson, Memorial (Applied Science)		500 00	
Wickett, Morley (Matriculation, English and History)		2.271 73	
Willson, Herbert (Biology and Medicine)		100 00	
Wilson, Daniel (Natural Science)		2.000 00	
Wright, Ramsay (Zoology)		17,712 95	
Wrong, George M., (Modern History)		3,749 64	
Young Memorial (Philosophy)		6,325 53	
Ledger Balances on 30th June, 1938			$ 537.488 62
Return of 30th June, 1937	$509,364 83		
Additions to funds during year (including income from investments)	59.034 64		
Interest credited to endowments	6.231 99		
		$574.631 46	
Expended for scholarships, prizes, etc.		37,142 84	
Return of 30th June, 1938			$ 537.488 62

SCHEDULE 3

Trust Funds

Banting Research Foundation	$713.215 22
Banting Research Foundation (Reserve)	12,956 58
Canada Packers' Donation (Heparin Research)	45 60
Carnegie Corporation, Educational Research	6,058 47
Carnegie Corporation, Physiology Research	2 36
Carnegie Corporation, Library, University College	1,715 85
Carnegie Corporation, Workmen's Educational Association	954 95
Connaught Laboratories Research	200.000 00
Dental Research	529 44

Dunlap Bequest (Medical Research)	108,611 47	
Eaton Endowment (Medicine)	45,173 58	
Engineering Society Donation	181 93	
Fairclough, William Erving, Memorial	24,709 37	
Fasken, David, Trust	5,012 24	
Forster, J. W. L., Fine Art Donation	360 46	
Fulford Estate Donation	3,244 49	
Geophysics Research	2,216 73	
Honor, John, Bequest (Arts)	10.851 20	
Horton, John Hughes, Bequest (not allocated)	816 59	
Hoskin, John, Bequest (Residences)	13.583 48	
Insulin Committee, Surplus	882.603 25	
Langton, John, Memorial	30 00	
Leonard, Reuben Wells, Bequest	137.327 87	
Library Funds:		
Abbott Dental	37 39	
King Alfred Millenary	10.073 61	
Phillips Stewart	1.526 24	
John Squair (French) No. 1	1.000 00	
John Squair (French) No. 2	1,005 07	
Graduates' Deposits	3.617 29	
Massey Foundation	272,261 84	
Massey-Treble Bequest, Household Science	30.379 27	
Medical Research, Banting	175.257 86	
Medical Research, Best	107.580 57	
Mendel, Bruno, Fund	3.322 78	
McLennan, Sir John, Bequest (Scientific Research)	2.022 51	
Ontario Archaeology—Special Research	741 04	
Porter, T. M., Bequest	12.154 34	
Reeve, R. A., Bequests (not allocated)	17.164 30	
Rockefeller (Medical Endowment)	1.043.912 50	
Rockefeller (Hygiene Endowment)	863.882 15	
Rockefeller (Child Research)	9 81	
Rockefeller (School of Nursing)	5 78	
Rutherford, Dr. James P., (Medical Research)	6.256 98	
Seldon, Lauretta M., Bequest	54 66	
Simpson, Mary A., Bequest	103 29	
Standard Brands Research (Chemistry)	6 54	
Stewart, John A., (Pernicious Anaemia)	2,462 14	
Walker, E. C., Bequest (Residences)	61.677 51	
Walker, J. Harrington, Bequest (Residences)	33.868 01	
Wallberg, E. A., Memorial	1.798.008 03	
Wallberg, E. A., Memorial (Loan Fund)	6.025 74	
Whitney, E. C., Bequest	186.763 42	
Wintercorbyn, Mrs. E. A., Bequest	9.578 63	
Ledger balances on 30th June, 1938		$6.820.960 43
Return of 30th June, 1937	$6,629.204 88	
Additions to funds during year (including income from investments)	706.876 57	
Interest credited to endowments	59.772 67	
	$7.395.854 12	
Expenditures and transfers from funds	574.893 69	
Return of 30th June, 1938		$6.820.960 43

SCHEDULE 4

PENSION AND RETIREMENT FUNDS

1. Pension Fund (Academic) (Commenced 1 July, 1929):		
At credit of account on 30th June, 1937	$410.835 74	
Contributions during year	44.588 34	
Interest credited	18.484 71	
	$473.908 79	
Withdrawals	19.360 20	
		$454.548 59

2. Pension Fund (Employees) (Commenced 1 October, 1929):		
At credit of account on 30th June, 1937	$502.603 62	
Contributions during year	70,209 56	
Interest credited	21,369 36	
	$594.182 54	
Withdrawals	17,906 20	
		$576,276 34
3. Estimated accrued liability as per Actuary's report at quinquennial revaluation in 1934		$130,700 00
Return of 30th June, 1938		$1,161,524 93

SCHEDULE 5

Annuity Debentures

Issue of July, 1909. $500.000. repayable in forty equal annual amounts of $25.260 each.	
Value as on 30th June, 1938, of the eleven outstanding instalments	$221.289 26
Issue of January, 1911, under 1 George V, Cap. 80, for construction of Pathological building, $130,000, repayable in forty equal annual amounts of $6,568 each,	
Value as on 30th June, 1938, of the thirteen outstanding instalments	65.588 00
Accrued on 30th June, 1938, of twenty-eighth payment and charged to Revenue. 1937-38	3,284 00
Issue of January, 1911, under 1 George V, Cap. 80, as a grant towards construction of Toronto General Hospital. $300,000. repayable in forty equal annual amounts of $15,157 each.	
Value as on 30th June, 1938, of the thirteen outstanding instalments	151.356 00
Accrued on 30th June, 1938, of twenty-eighth payment and charged to Revenue. 1937-38	7.578 50
Issue of April, 1915, under R.S.O., 1914, Cap. 279. to provide for the payment of $100,000 to the Hart A. Massey Estate towards the Gymnasium portion of Hart House, $110,000, repayable in forty equal annual amounts of $5,975 each,	
Value as on 30th June, 1938, of the seventeen outstanding instalments	69,950 67
Accrued on 30th June, 1938, of twenty-fourth payment and charged to Revenue, 1937-38	1,244 80
Issue of July, 1924, under R.S.O., 1914, Cap. 279, for construction of Forestry building. $124,622, repayable in twenty equal annual amounts of $10.000 each.	
Value as on 30th June, 1938, of the six outstanding instalments	50.756 90
Issue of January, 1929. under R.S.O., 1927, Cap. 337, for construction of a new building for Pathology and allied departments (Banting Institute) $800.000. repayable in twenty equal annual amounts of $64,193 each.	
Value as on 30th June. 1938. of the eleven outstanding instalments	533.234 34
Accrued on 30th June. 1938. of tenth payment and charged to Revenue. 1937-38	29.421 80
	$1.133.704 27

SCHEDULE 6

Contingent Funds, etc.

Contingent Fund (Investment Reserve):		
Balance brought forward from 1937		$172,161 84
Organ Fund:		
Balance on 30th June, 1937	$3.464 03	
Expenditure on upkeep of organ. less receipts	193 09	
		3,270 94
University Press:		
At credit of accounts as per Appendix III		7.246 08
Ontario College of Education:		
At credit of account (Appendix V)		34.865 48
Sundry Legislative Grants:		
Administration Building:		
Balance brought forward from 1937		283 15
Botanical Building:		
Balance brought forward from 1937		1 65
David Dunlap Observatory (Construction Account):		
Balance brought forward from 1937		237 35
		$218.066 49

Sundry ledger balances, items in suspense, etc.:			
Residence. Laboratory and Key deposits	$4.688 22		
Fire Loss accounts	390 00		
		$5.078 22	
Fire Insurance Premiums paid in advance	$21,424 56		
Workmen's Compensation Board deposit	134 10		
Banting Institute	133 34		
		21,692 00	
			16,613 78
			$201,452 71
Balance at debit of Revenue on 30th June, 1937, brought forward		$14,105 00	
Revenue deficit for 1937-38 as per Schedule 6a		97.596 90	
			111,701 90
			$89,750 81

SCHEDULE 6a

Revenue, 1937-38

Receipts

		Estimate	Actual
Legislative Grant. University Act, 1906		$500,000 00	$ 500,000 00
Legislative Grant, 60 Vict., Cap. 59		7,000 00	7,000 00
Legislative Grant. 13-14 George V		10.000 00	10,000 00
Fees. University and College, as detailed in Appendix I		795,000 00	798,971 57
Infirmary Receipts. Dentistry		30,000 00	24,025 40
Interest:			
On Dominion and Provincial Government Bonds		160,000 00	108,770 92
On Ontario Government Annuities			26,018 62
On Debentures			3,073 59
On Loans			3,260 61
On Bank Balances			2,381 43
Rentals:			
University Park ground leases			11.393 00
City of Toronto payment			6.000 00
Business properties			12,278 76
Sundry houses and land earnings			2.420 36
Men's Residences:			
(General. $14.974.94; University College, $2.743.10)		17,000 00	17.718 04
Women's Residences:			
(Whitney Hall. $47.846.21; St. George Street Group. $15,037.05)		68,000 00	62.883 26
University College Women's Union:			
(Membership fees. $2,062; rooms and meals, $5,196.67)			7.258 67
Central Power Plant:			
Wycliffe, Victoria and Knox Colleges	$28.795 14		
Royal Ontario Museum	14.843 16		
Sundry accounts	13.401 38		
		50.000 00	57.039 68
Press and Book Department		30.000 00	30.000 00
Photographic Service and Casual Revenue		5.000 00	8.888 11
		$1.672.000 00	$1,699,382 02
Special Legislative Grant		900,000 00	900.000 00
Supplementary Grant		375.785 00	200.000 00
		$2.947.785 00	$2.799.382 02

Expenditures

Under appropriations as per Appendix II	$2.882.785 00	$2.830.590 60
Interest written to Scholarship and other funds	65.000 00	66.388 32
	$2.947.785 00	$2.896.978 92
Receipts as above		2.799.382 02
Excess of expenditures over receipts carried to Schedule 6		$ 97.596 90

SCHEDULE 7

Site Lands, Buildings and Contents

Site Lands:		
2,423,843 sq. feet @ forty cents per foot	$969,537 20	
332.549 sq. feet @ cost price	447,344 23	
18,000 sq. feet @ estimate	40,000 00	
2,774,392 sq. feet		$1,456,881 43
Buildings:		
Anatomical building	$482,388 37	
Baldwin House	12.000 00	
Banting Institute	813,129 93	
Biological building	129,745 30	
Botanical building	516,998 35	
Chemical building	77,469 88	
Convocation Hall	214,866 22	
Dental building	350,000 00	
Economics building	76,350 00	
Electrical building	346,699 89	
Engineering building	50,000 00	
Forestry building	122,359 86	
Geodetic Observatory building	12.000 27	
Hart House (not appraised)	....	
Household Science building	455,000 00	
Hygiene and Public Health building	852,682 40	
Library building	327,425 50	
McLennan Laboratory	363.945 85	
Mechanical building	119.017 21	
Medical building	200,000 00	
Men's Residences	217,670 04	
Military Studies building	8,239 47	
Mining building	384,736 89	
Mill building	229,972 52	
Ontario College of Education	703.390 67	
President's House	38,767 62	
Press building	1 00	
Psychology buildings	22.333 26	
Simcoe Hall	399,055 10	
University College building	450.000 00	
University College Women's Union	70.059 19	
Women's Residences:		
Whitney Hall	487,988 37	
Hutton House	24,723 77	
St. George Street properties:		
Numbers 43	30.054 25	
45	39,079 67	
47	10.172 95	
49	25,007 51	
96	22.692 60	
98	16,708 84	
100	17.776 93	
104	22.498 27	
106	10.034 15	
	$8,753,042 10	
Less balance of purchase money yet to be paid on No. 104 St. George Street	8,050 00	
		$8.744.992 10
Library		668.079 04
Organ		24.000 00
Sundry Departmental Equipment		375,153 99
Furniture and Furnishings, various buildings		43,565 13
Arena		223,070 40
Athletic Field Stadium and equipment		11.817 88
Aura Lee Grounds and equipment (Ontario College of Education)		17.276 27
Gymnasium equipment		7,620 19
Surveying Practice Camp, Lutterworth Township. (land, $1,250. buildings. etc., $10,000)		11.250 00
David Dunlap Observatory (land, $41,750, building. $163,700. telescope. dome. etc., $225.000)		430,450 00

Connaught Laboratories (Farm, buildings and equipment)	81.500 00
Connaught Laboratories (Hygiene building plant)	1 00
Central Power Plant	1 00
Printing Plant	1 00
General Museum Specimens	1 00
Dining Hall equipment	1 00
Total valuation	$12,095,661 43

Return of 30th June, 1937			$12.026,148 85	
Additions thereto as per Schedule 1:				
Land and Building. 104 St. George St.		$22,498 27		
Hygiene and Public Health Building Addition		25.817 06		
Library proper:				
Value of additions for 1937-38 reported by the Librarian	$50.169 17			
Less depreciation @ 3% on $688.741.28	20.662 24			
		29,506 93		
		$77,822 26		
Less payment yet to be made on No. 104 St. George Street		8.050 00		
			69.772 26	
				$12.095.921 11

Contra

Women's Residences Furniture written down by application of credit from Sale of Wild Lands set apart for Women's Residences	259 68
Return of 30th June. 1938	$12.095.661 43

SCHEDULE 8

Unproductive Lands

U. C. C. block on King Street	$50.425 40	
Vacant land in Port Hope	8.045 00	
Endowment lands unsold in various townships	152 00	

(No transactions during year)

Return of 30th June, 1938	$58.622 40

SCHEDULE 9

Leased Properties

Land leased to City of Toronto	$120.000 00	
Park Lots leased (including Federated Colleges Sites)	402.992 20	
Toronto business properties	183.000 00	
Spadina Avenue houses (Nos. 719-721)	8.023 51	
Caradoc Farm	3.000 00	
		$717.015 71
Rentals and City of Toronto payment accrued	$7.295 00	
Rentals past due	75 00	
		7.370 00
		$724,385 71

Return of 30th June, 1937	$752.975 71	
Reduction in figure hitherto carried for business property, Scott Street, to conform to temporarily lowered ground rental	30.000 00	
	$722.975 71	
Difference in rentals past due	1,410 00	
Return of 30th June, 1938		$724.385 71

SCHEDULE 10

INVESTMENTS, CASH AND ACCOUNTS RECEIVABLE

Dominion of Canada Bonds and guaranteed issues	$3,507,531 01	
Interest accrued	8,915 51	
		$3.516,446 52
Province of Ontario Bonds and guaranteed issues	$2,756,246 31	
Interest accrued	18,135 67	
		2,774.381 98
Other Government Bonds	$482,994 52	
Interest accrued	1,064 79	
		484.059 31
Municipal debentures	$639.675 36	
Interest accrued	1.642 55	
		641,317 91
University of Toronto debentures (guaranteed)		533.234 34
Toronto Conservatory of Music debentures		201,898 42
Corporation debentures		35,351 00
Sundry stocks		108.539 62
Investments in trust for Banting Research Foundation		709.980 61
Loan to Athletic Association		55.000 00
Loan to Hart House		5.000 00
Accounts Receivable:		
University Press	$190 83	
Department of Photography	182 84	
Labour and material	6,091 06	
Central Power Plant	28,795 14	
Eaton Endowment	25,000 00	
	$60.259 87	
Less Royal Ontario Museum balances and miscellaneous items at credit	14,089 14	
		46.170 73
Canadian Bank of Commerce, on deposit		314,645 71
		$9,426.026 15

TRANSACTIONS, 1937-38

Inwards

Dominion and Provincial Government Bonds	$9.399 00	
Municipal debentures	16.920 46	
University of Toronto debentures	35.744 08	
Toronto Conservatory of Music debentures	43.263 00	
Corporation debentures	1,020 65	
Athletic Association and Hart House loans	12.000 00	
Banting Research Foundation Investments	34.391 80	
Withdrawals from Canadian Bank of Commerce	4.596.184 70	
		$4.748,923 69

Outwards

Dominion and Provincial Government Bonds	$423,462 24	
Municipal debentures	1,873 66	
Toronto Conservatory of Music debentures	361 42	
Corporation debentures	1,970 65	
Sundry stocks	30.954 62	
Banting Research Foundation Investments	33.099 92	
Deposits in Canadian Bank of Commerce	4.469,577 30	
Increase in accrued revenue	792 68	
Increase in accounts outstanding	36.007 29	
		4.998,099 78
		$ 249.176 09
Return of 30th June. 1937		9.176.850 06
Return of 30th June. 1938		$9.426.026 15

APPENDIX 1

Fees, 1937-38

Balance brought forward, 1936-37			$617 00
Total of fees collected, 1937-38			1.015.238 47
			$1,015,855 47
Distribution thereof:			
Sundry refunds during year			$5.173 00
Share of fees paid to the following:			
Hart House			43.796 25
Students' Administrative Council			15.233 00
Athletic Fee			15.972 00
Medical Society			3.163 00
Dental Students' Parliament			1.504 00
Foresters' Club			93 00
Graduate Students' Union			452 00
University College Literary and Athletic Society			1.772 00
University College Women's Undergraduate Association			1.481 00
Medical Women's Undergraduate Association			122 00
Teachers' Course Association			974 00
Royal College of Dental Surgeons			1.870 00
St. Michael's College (Household Science)			55 00
Toronto Conservatory of Music			980 00
Hospitals:			
Toronto General	$9.675 00		
Toronto General (Burnside)	904 00		
		$10.579 00	
St. Michael's		1.510 00	
Sick Children's		1.245 00	
Toronto Western		1.280 00	
			14.614 00
Credited to Sundry Accounts:			
Ontario College of Education			64,323 64
University College Women's Union			2.062 00
School of Nursing			15,958 00
St. George's School for Child Study			2.447 50
Laboratory Deposits			22.947 51
Fees paid in advance for 1938-39			1,891 00
Balance to Revenue Account (Schedule 6a)			798,971 57
			$1.015.855 47

DETAILS OF FEES RECEIVED

	Arts	Commerce and Finance	Medicine	Applied Science	Dentistry	Education and Pedagogy	Forestry	Music	Household Science	Total
General Tuition	$ 124,525 50	$ 23,463 50	$ 193,437 49	$ 173,841 33	$ 43,586 00	$ 26,319 50	$ 4,144 00	$ 1,220 00	$ 5,444 00	$ 595,981 32
Graduate Courses			1,675 00		673 00					2,348 00
University Schools						31,661 64				31,661 64
Library School						4,161 50				4,161 50
Registration			25 00		115 00	380 00		25 00		545 00
Matriculation	475 00	5 00	55 00	75 00	30 00		5 00	20 00	5 00	670 00
Ad Eundem	140 00		150 00	60 00	180 00			120 00	170 00	820 00
Examinations	29,669 00	2,130 00	9,685 00	10,600 00	2,205 00	2,089 00	395 00	590 00	530 00	57,893 00
Degrees & Hon. Cert.	6,632 00	330 00	2,824 00	1,452 00	690 00	765 00	50 00	311 00	203 00	13,257 00
Laboratory Supplies	4,640 00	34 00								4,674 00
Library	17,605 00	1,449 00	5,726 00	5,831 00	1,302 00		217 00		287 00	32,417 00
Physical Education (Diploma)	777 00									777 00
Med. Exam. & Phy. Tr. (Men)	3,920 00	507 00	1,110 00	2,180 00	410 00		85 00			8,212 00
Med. Exam. & Phy. Tr. (Women)	1,099 00	4 00	52 00	50 00					24 00	1,229 00
Penalties	1,888 00	177 00	1,217 00	852 00	194 00		20 00	5 00	25 00	4,378 00
Laboratory Deposits	9,264 71		5,071 55	4,987 75	3,146 65				476 85	22,947 51
Women's Union	1,838 00	11 00	27 00	4 00	4 00	35 00			38 00	1,957 00
Women's Undergraduate Association	1,472 00	9 00	122 00							1,603 00
Hart House	15,793 00	2,236 00	8,924 00	10,135 25	2,228 00	1,570 00	390 00	12 00		41,288 25
Students' Adm. Council	7,452 00	522 00	2,036 00	2,252 00	504 00	665 00	88 00		166 00	13,685 00
Athletic Fee	7,495 00	600 00	2,367 00	2,496 00	555 00	899 00	96 00		117 00	14,625 00
Literary and Athletic Society	1,494 00	278 00								1,772 00
Medical Society			3,163 00							3,163 00
Dental Students' Parliament					1,504 00					1,504 00
Foresters' Club							93 00			93 00
	$ 236,179 21	$ 31,755 50	$ 237,667 04	$ 214,816 33	$ 57,326 65	$ 68,545 64	$ 5,583 00	$ 2,303 00	$ 7,485 85	$ 861,662 22

DETAILS OF FEES RECEIVED—Continued

	Post Graduate	University Extension	Social Science	Law	Pharmacy	Veterinary Science	Agriculture	School of Nursing	St. George's School	Total
Tuition	$ 14,450 50		$ 4,842 00		$ 15,000 00			$ 16,128 00	$ 2,447 50	$ 52,868 00
Summer Session:										
Tuition		$ 11,904 00								11,904 00
Specialists		750 00								750 00
Correspondence Courses		4,089 00								4,089 00
Teachers' Course		21,206 00								21,206 00
Occupational Therapy		6,177 00								6,177 00
Physiotherapy		5,141 00								5,141 00
Aerial Navigation		100 00								100 00
Tutorial Courses		16,260 50								16,260 50
Short Courses:										
Art of the Theatre		780 00								780 00
Public Admistration		285 00								285 00
Social Workers		213 00								213 00
Registration	2,517 00									2,517 00
Matriculation		15 00		30 00	615 00					660 00
Ad Eundem		35 00								35 00
Examinations	3,878 00	4,055 00	410 00	90 00	1,895 00	18 00	1,180 00	155 00		11,681 00
Degrees & Hon. Cert.	2,261 25	420 00		60 00	1,030 00	540 00	1,150 00	65 00		5,526 25
Laboratory Supplies	4 00									4 00
Library	3,286 50	1,324 00	287 00					746 00		5,643 50
Med. Exam. and Phy. Tr. (Women)	4 00	19 00	4 00					12 00		39 00
Penalties		713 00	22 00		9 00			19 00		763 00
Women's Union	21 00	80 00	4 00							105 00
Hart House					2,508 00					2,508 00
Students' Adm. Council		272 00	168 00		866 00			242 00		1,548 00
Athletic Fee		228 00	129 00		675 00			315 00		1,347 00
Graduate Stu. Union	452 00									452 00
Teachers' Course Assoc.		974 00								974 00
	$ 26,874 25	$ 75,040 50	$ 5,866 00	$ 180 00	$ 22,598 00	$ 558 00	$ 2,330 00	$ 17,682 00	$ 2,447 50	$ 153,576 25

CLASSIFICATION OF SERVICES

	Gross Receipts	Refunds	Other Deductions	Net Amount
Tuition, etc.:				
Arts	$124,525 50	$1,138 50		$123,387 00
Commerce and Finance	23,463 50	128 50		23,335 00
Medicine	195,112 49	307 00	14,614 00	180,191 49
Applied Science	173,841 33	492 00		173,349 33
Dentistry	44,259 00	34 00	1,870 00	42,355 00
Education	32,950 00	254 00	32,696 00	
Education (University Schools)	31,661 64	34 00	31,627 64	
Forestry	4,144 00			4,144 00
Music	1,220 00		980 00	240 00
Household Science	5,444 00	10 00	55 00	5,379 00
Post Graduate	14,450 50	65 00		14,385 50
University Extension	66,905 50	1,455 50		65,450 00
Social Science	4,842 00	3 00		4,839 00
Pharmacy	15,000 00			15,000 00
School of Nursing	16,128 00	170 00	15,958 00	
St. George's School	2,447 50		2,447 50	
Registration	2,682 00			2,682 00
Matriculation	1,330 00	20 00		1,310 00
Ad Eundem	855 00	10 00		845 00
Examinations	67,485 00	755 00		66,730 00
Degrees and Honour Certificates	18,783 25	166 50		18,616 75
Laboratory Supplies	4,678 00	12 00		4,666 00
Library	38,060 50	79 00		37,981 50
Physical Education Diploma	777 00			777 00
Med. Exam. and Phy. Tr. (Men)	8,212 00	34 00		8,178 00
Med. Exam and Phy. Tr. (Women)	1,268 00			1,268 00
Penalties	5,141 00	5 00		5,136 00
Women's Union	2,062 00		2,062 00	
Women's Undergraduate Association University College	1,481 00		1,481 00	
Women's Undergraduate Association Medicine	122 00		122 00	
Hart House	43,796 25		43,796 25	
Students' Administrative Council	15,233 00		15,233 00	
Athletic Fee	15,972 00		15,972 00	
Literary and Athletic Society	1,772 00		1,772 00	
Medical Society	3,163 00		3,163 00	
Dental Students' Parliament	1,504 00		1,504 00	
Foresters' Club	93 00		93 00	
Graduate Students' Union	452 00		452 00	
Teachers' Course Association	974 00		974 00	
Laboratory Deposits	22,947 51		22,947 51	
	$1,015,238 47	$5,173 00	$209,819 90	$800,245 57

RECAPITULATION

University Fees Proper	$884,188 97	$4,034 50	$209,819 90	$670.334 57
University College Fees Proper	131,049 50	1,138 50		129,911 00
Balance brought forward, 1936-37	617 00			617 00
	$1,015,855 47	$ 5,173 00	$209,819 90	$800,862 57
Less paid in advance for 1938-39				1,891 00
				$798,971 57

APPENDIX II

Revenue Expenditures, 1937-38

	Appropriation	Supplementary	Unused	Total
I. Administration:				
1. Salaries	$112,300 00	$1,485 17		$113,785 17
2. Pensions and Retiring Allowances	103,700 00		$2,688 42	101,011 58
3. President's Office	850 00		1 72	848 28
4. Bursar's Office	5,700 00	684 90		6,384 90
5. Registrar's Office	6,150 00		338 92	5,811 08
6. Superintendent's Office	4,600 00		881 35	3,718 65
7. Convocation and Simcoe Halls	12,925 00		926 35	11,998 65
8. President's House	200 00		159 20	40 80
	$246,425 00	$2,170 07	$4,995 96	$243,599 11
II. Library:				
9. Salaries	$58,720 00		$825 48	$57,894 52
10. Maintenance	54,700 00	765 89		55,465 89
11. Building	5,120 00		487 49	4,632 51
	$118,540 00	$765 89	$1,312 97	$117,992 92
III. 12. Royal Ontario Museum	$77,848 00		$ 50	$77,847 50
IV. Athletics, Physical Training, Military Studies, etc.:				
13. Athletics and Physical Training—Men	16,160 00		66 55	16,093 45
14. Athletics and Physical Training—Women	6,600 00		53 23	6,546 77
15. Health Service—Men	8,250 00		129 32	8,120 68
16. Health Service—Women	4,800 00	36 98		4,836 98
17. Military Studies	3,080 00	8 85		3,088 85
18. Hart House (share of maintenance)	10,200 00	1,747 39		11,947 39
19. Women's Building (44 Hoskin Avenue)	1,120 00		290 80	829 20
20. Military Studies Building	1,350 00		86 12	1,263 88
	$51,560 00	$1,793 22	$626 02	$52,727 20
V. 21. Examinations, etc.	$20,300 00		$1,374 33	$18,925 67
VI. Faculty of Arts:				
22. Salaries	$753,664 00		$ 2,811 20	$750,852 80
23. Mathematics	600 00		416 28	183 72
24. Applied Mathematics	900 00		121 99	778 01
25. Physics	10,750 00		150 64	10,599 36
26. Astronomy	3,100 00		138 50	2,961 50
27. Geology	1,300 00		34 44	1,265 56
28. Mineralogy	2,750 00		47 43	2,702 57
29. Chemistry	8,350 00	788 52		9,138 52
30. Biology	5,750 00		429 12	5,320 88
31. Botany	6,450 00		40 07	6,409 93
32. History	1,200 00		13 17	1,186 83
33. Anthropology	75 00		5 50	69 50
34. Archaeology	400 00	18 93		418 93
35. Fine Art	1,150 00		49 90	1,100 10
36. Geography	1,000 00	174 18		1,174 18
37. Political Economy	2,350 00		48 33	2,301 67
38. Law	200 00		37 24	162 76
39. Philosophy	150 00		27 17	122 83
40. Psychology	4,075 00		1 84	4,073 16
41. Italian and Spanish	225 00		54	224 46
42. University College Departments	600 00		83 29	516 71
43. University College General Expenses	1,600 00		509 07	1,090 93
44. University College Building	11,900 00		893 80	11,006 20
45. McLennan Laboratory (Physics)	6,375 00		209 72	6,165 28

REVENUE EXPENDITURES, 1937-38—Continued

	Appropriation	Supplementary	Unused	Total
46. Chemical Building	$ 4,150 00	$ 103 48	...	$ 4,253 48
47. Biological Building	5,725 00	96 17	...	5,821 17
48. Botany Building	6,225 00	...	$ 724 00	5,501 00
49. Baldwin House (History)	2,905 00	...	288 97	2,616 03
50. No. 43 St. George St.	1,105 00	...	181 11	923 89
51. No. 45 St. George St. (Law)	1,735 00	...	467 89	1,267 11
52. No. 47 St. George St. (Applied Mathematics)	1,170 00	...	332 60	837 40
53. Economics Building	11,450 00	...	553 36	10,896 64
54. Psychology Buildings	3,390 00	...	708 56	2,681 44
55. David Dunlap Observatory	4,000 00	...	407 73	3,592 27
	$866,769 00	$ 1,181 28	$9.733 46	$858,216 82

	Appropriation	Supplementary	Unused	Eaton, Rockefeller and Wallberg Funds	Total
VII. Faculty of Medicine:					
56. Salaries	$ 271,800 00	...	$ 1,044 41	$ 79,107 76	$ 349,863 35
56a. Post Graduate Courses	...	$1,686 52	...	...	1,686 52
57. Anatomy	5,600 00	...	264 60	...	5,335 40
58. Pathology and Bacteriology	8,025 00	...	47 31	...	7,977 69
59. Pathological Chemistry	2,250 00	...	175 06	...	2,074 94
60. Pharmacy and Pharmacology	2,400 00	...	102 67	...	2,297 33
61. Bio-Chemistry (including Zymology)	4,600 00	...	8 99	...	4,591 01
62. Physiology	3,650 00	...	56 12	...	3,593 88
63. Hygiene and Preventive Medicine	2,220 00	1,158 02	...	...	3,378 02
64. Medicine	...	...	...	2,997 80	2,997 80
65. Paediatrics	...	...	...	1,491 94	1,491 94
66. Surgery	1,280 00	346 72	...	...	1,626 72
67. Obstetrics and Gynaecology	550 00	...	449 04	...	100 96
68. Ophthalmology	500 00	...	449 20	...	50 80
69. Oto-Laryngology	300 00	...	215 35	...	84 65
70. Therapeutics	200 00	1 08	...	...	201 08
71. Psychiatry	50 00	...	44 33	...	5 67
72. Medical Jurisprudence	...	...	...	...	...
73. Radiology	1,000 00	...	60	...	999 40
74. Art Service	4,150 00	...	11 83	...	4,138 17
75. General Expenses	4,500 00	...	30 81	...	4,469 19
76. Medical Building	8,800 00	...	952 73	...	7,847 27
77. Banting Institute	23,150 00	...	715 68	...	22,434 32
78. Anatomical Building	5,135 00	...	1,012 84	...	4,122 16
79. Hygiene Building	9,900 00	155 70	...	...	10,055 70
	$ 360,060 00	$3,348 04	$5,581 57	$ 83,597 50	$ 441,423 97
VIII. School of Hygiene:					
80. Salaries	...	...	...	$33,865 45	$33,865 45
81. Maintenance	...	...	...	1,090 34	1,090 34
				$34,955 79	$34,955 79

	Appropriation	Supplementary	Unused	Total
IX. Faculty of Applied Science:				
82. Salaries	$283,200 00	...	$5,975 75	$277,224 25
83. Electrical Engineering	3,300 00	11 67	...	3,311 67
84. Mechanical Engineering	12,450 00	...	747 10	11,702 90
85. Civil Engineering:				
Municipal and Structural	1,200 00	...	290 49	909 51

REVENUE EXPENDITURES, 1937-38—Continued

	Appropriation	Supplementary	Unused	Eaton, Rockefeller and Wallberg Funds	Total
86. Civil Engineering: Surveying and Geodesy.....	4,363 00	....	58 56	....	4,304 44
87. Mining Engineering........	3,900 00	....	403 69	....	3,496 31
88. Metallurgical Engineering...	1,000 00	....	66 55	....	933 45
89. Chemical Engineering and Applied Chemistry........	9,000 00	....	54 69	....	8,945 31
90. School of Architecture.......	905 00	....	103 07	....	801 93
91. Engineering Drawing.......	625 00	....	60 15	....	564 85
92. Applied Physics............	1,775 00	....	30 92	....	1,744 08
93. General Expenses..........	3,260 00	....	200 83	....	3,059 17
94. Photographic Service.......	8,250 00	....	295 33	....	7,954 67
95. Mining Building (including Mill Building)............	11,150 00	....	341 91	....	10,808 09
96. Engineering Building.......	6,050 00	....	347 50	....	5,702 50
97. Electrical Building (including Mechanical Building and Wind Tunnel)............	7,525 00	....	890 44	....	6,634 56
98. Geodetic Observatory Bldg..	475 00	....	241 62	....	233 38
	$358,428 00				
Of which chargeable to Wallberg Fund....................	20,000 00				
	$338,428 00	$ 11 67	$ 10,108 60	$ 20,000 00	$348,331 07
X. Faculty of Dentistry:					
99. Salaries..................	$86,647 00	....	$366 66	....	$86,280 34
99a. Post Graduate Courses ...	....	381 71	....	....	381 71
100. Laboratory and Infirmary Supplies, etc..............	23,000 00	....	75 08	....	22,924 92
101. General Expenses.........	2,250 00	24 95	....	....	2,274 95
102. Dental Building..........	13,800 00	....	1,019 90	....	12,780 10
	$125,697 00	$ 406 66	$ 1,461 64	....	$124,642 02
XI. Faculty of Household Science:					
103. Salaries.................	$28,600 00	....	$ 487 50	....	$28,112 50
104. Household Science.......	3,175 00	....	331 92	....	2,843 08
105. Food Chemistry.........	1,900 00	....	141 53	....	1,758 47
106. General Expenses.........	2,000 00	....	53 47	....	1,946 53
107. Household Science Building	5,100 00	....	519 29	....	4,580 71
	$40,775 00	....	$ 1,533 71	....	$ 39,241 29
XII. Faculty of Forestry:					
108. Salaries.................	$23,000 00	....	$ 75 00	....	$22,925 00
109. Maintenance............	2,500 00	....	557 37	....	1,942 63
110. Forestry Building........	2,335 00	....	326 34	....	2,008 66
	$27,835 00	....	$ 958 71	....	$26,876 29

	Appropriation	Supplementary	Unused	Eaton, Rockefeller and Wallberg Funds	Total
XIII. Faculty of Music:					
111. Salaries....................	$1,750 00	....	....	....	$1,750 00
112. Maintenance.............	300 00	....	92 98	....	207 02
	$2,050 00	....	$ 92 98	....	$1,957 02
XIV. School of Graduate Studies:					
113. Salaries....................	$3,950 00	....	....	....	$3,950 00
114. Maintenance.............	625 00	....	25 57	....	599 43
	$4,575 00	....	$ 25 57	....	$4,549 43

REVENUE EXPENDITURES, 1937-38—Continued

	Appropriation	Supplementary	Unused	Eaton, Rockfeller and Wallberg Funds	Total
XV. School of Nursing:					
115. Salaries	$21,680 00			39,184 22	46,684 22
116. Special Teaching	4,825 00				
117. School Maintenance	1,760 00				
118. Residence Maintenance	9,600 00				
119. Contingency Fund	200 00				
120. Building–(No. 7 Queen's Park)	5,335 00				
	($43,400 00)				
Proportion chargeable to Revenue	7,500 00)			39,184 22	46,684 22
XVI. Social Science:					
121. Salaries	$13,100 00		$ 55 00		$13,045 00
122. Maintenance	850 00		25 58		824 42
	$13,950 00		$ 80 58		$13,869 42
XVII. University Extension and Publicity:					
123. Salaries	$18,450 00		$ 83 33		$18,366 67
124. Extension and Publicity Depts.	54,000 00	6,876 04			60,876 04
	$72,450 00	$6,876 04	$ 83 33		$79,242 71
XVIII. Men's Residences:					
125. Maintenance of Buildings	$16,590 00		$1,034 56		$15,555 44
XIX. Women's Residences and Union:					
126. Maintenance of Buildings	$10,175 00		$ 865 42		$ 9,309 58
127. Housekeeping Account	58,275 00		7,026 59		51,248 41
	$68,450 00		$ 7,892 01		$ 60,557 99
XX. 128. Central Power Plant	$150,600 00		$ 6,217 93		$144,382 07

	Appropriation	Supplementary	Unused	Total
XXI. Miscellaneous and General:				
129. Central Stores	$ 4,100 00			$ 4,100 00
130. Grounds	20,300 00		$ 414 55	19,885 45
131. Protective Service	17,200 00		920 14	16,279 86
132. Telephones	14,000 00		1,547 75	12,452 25
133. Insurance	22,000 00	2,197 98		24,197 98
134. Law Costs	1,000 00		62 01	937 99
134a. Taxes		5,068 43		5,068 43
135. Auditor's Fees	3,000 00			3,000 00
136. Travelling Expenses	3,200 00	37 58		3,237 58
137. Receptions to Societies and University Visitors	3,000 00		1,865 89	1,134 11
138. Convocation Expenses	600 00		60 00	540 00
139. Aid to Publications and Societies	4,100 00		85 08	4,014 92
140. Senate Elections				
141. Bursaries	14,000 00		4,055 00	9,945 00
142. Contingencies	20,000 00		16,907 86	3,092 14
	$126,500 00	$ 7,303 99	$25,918 28	$107,885 71

	Appropriation	Supplementary	Unused	Total
XXII. 143. Capital Account Charges....	$119,653 00	....	....	$119,653 00
XXIII. Special Research:				
144. Departmental Appropriations...	16,230 00	2,981 45	....	19,211 45
145. Banting and Best..............	10,000 00	....	....	10,000 00
	$26,230 00	$2,981 45	....	$29,211 45

Recapitulation

	Appropriation	Supplementary	Unused	Eaton, Rockefeller and Wallberg Funds	Total
I. Administration	$ 246,425 00	$2,170 07	$ 4,995 96	....	$243,599 11
II. Library...........	118,540 00	765 89	1,312 97	....	117,992 92
III. Royal Ontario Museum...........	77,848 00	....	50	....	77,847 50
IV. Athletics, Physical Training, Military Studies, etc.....	51,560 00	1,793 22	626 02	....	52,727 20
V. Examinations,.....	20,300 00	....	1,374 33	....	18,925 67
VI. Faculty of Arts	866,769 00	1,181 28	9,733 46	....	858,216 82
VII. Faculty of Medicine.	360,060 00	3,348 04	5,581 57	$83,597 50	441,423 97
VIII. School of Hygiene..	....	....	....	34,955 79	34,955 79
IX. Faculty of Applied Science	338,428 00	11 67	10,108 60	20,000 00	348,331 07
X. Faculty of Dentistry	125,697 00	406 66	1,461 64	....	124,642 02
XI. Faculty of Household Science......	40,775 00	....	1,533 71	....	39,241 29
XII. Faculty of Forestry	27,835 00	....	958 71	....	26,876 29
XIII. Faculty of Music...	2,050 00	....	92 98	....	1,957 02
XIV. School of Graduate Studies..........	4,575 00	....	25 57	....	4,549 43
XV. School of Nursing..	7,500 00	....	....	39,184 22	46,684 22
XVI. Social Science	13,950 00	....	80 58	....	13,869 42
XVII. University Extension and Publicity....	72,450 00	6,876 04	83 33	....	79,242 71
XVIII. Men's Residences...	16,590 00	....	1,034 56	....	15,555 44
XIX. Women's Residences and Union.......	68,450 00	....	7,892 01	....	60,557 99
XX. Central Power Plant	150,600 00	....	6,217 93	....	144,382 07
XXI. Miscellaneous and General.........	126,500 00	7,303 99	25,918 28	....	107,885 71
XXII. Capital Account Charges.........	119,653 00	....	....	....	119,653 00
XXIII. Special Research (including Banting and Best).......	26,230 00	2,981 45	....	....	29,211 45
	$2,882,785 00	$ 26,838 31	$ 79,032 71 26,838 31	$ 177,737 51	$3,008,328 11
	52,194 40		52,194 40		
Charged to Revenue.......	2,830,590 60				
Charged to Eaton, Rockefeller and Wallberg Funds...	177,737 51				
Total expenditure as above..	$3,008,328 11				

I. ADMINISTRATION

1. Salaries

(All salaries, except where otherwise stated, are for 12 months to 30 June, 1938)

President's Office

Hon. H. J. Cody, LL.D., President	$15,000 00	
Miss A. W. Patterson, President's Secretary (paid also $250 as Secretary, Faculty of Music)	2,500 00	
		$17,500 00

Bursar's Office

F. A. Mouré, Bursar (on leave of absence 1937-38)	$6,500 00	
C. E. Higginbottom, Accountant and Acting Bursar	4,200 00	
Accounts Branch:		
J. A. Gair, Assistant	2,000 00	
Miss E. Long, Appropriations Ledger Clerk	1,600 00	
Miss R. Mahood, Assistant Appropriations Ledger Clerk	1,050 00	
Clerks:		
Miss J. Branton	1,350 00	
J. R. Prince	1,000 00	
Miss E. Crookshanks	1,000 00	
Miss F. M. Quinlivan	850 00	
Miss V. Whitehead	850 00	
Fees Branch:		
Miss E. B. Goodwin, Chief Clerk	2,100 00	
Gordon M. Grant, Cashier	1,500 00	
Record Clerks:		
Mrs. Edith M. Hardy	1,100 00	
Miss F. J. Rorke	900 00	
Secretarial Branch:		
Miss A. M. Gall, Chief Clerk	2,050 00	
Miss M. Burns, Assistant	1,650 00	
Miss M. Austin, Pensions Clerk	1,550 00	
Clerk:		
Miss H. Malone, to 31 January, $612.50; 2 month's salary upon resignation, $175	787 50	
Miss D. W. Haggart, 3 January to 30 June @ $16 per week (see also University Extension Dept.)	410 67	
Honoraria for extra services during the Bursar's absence:		
C. E. Higginbottom	500 00	
J. A. Gair	150 00	
Miss A. M. Gall	100 00	
Miss E. B. Goodwin	100 00	
Miss E. Long	50 00	
Miss M. Burns	50 00	
Miss E. Crookshanks	50 00	
	$33,448 17	
Less charged to clerical assistance	1,000 00	
		$32,448 17

Registrar's Office

A. B. Fennell, Registrar	$5,000 00	
A. T. Laidlaw, Assistant Registrar	4,100 00	
Assistants:		
Miss A. MacGillivray	2,000 00	
Miss E. Hargreaves	1,900 00	
Miss I. E. Fraser	1,300 00	
Graduates' Register:		
Clerks:		
Miss B. G. Van Allen	1,450 00	
Miss M. F. Thompson	1,450 00	
Miss Ruth D. Wythe (on leave of absence without salary from 1 Jan. to 30 June)	475 00	
Miss A. I. Firth, 3 Jan. to 30 June @ $18 per week (substitute)	462 00	
Miss J. L. Stephens	950 00	
Miss Margaret E. Smith	750 00	
Clerks:		
Miss A. S. Meen	1,700 00	
Miss M. M. Lavell	1,100 00	
Miss E. M. Sharpe, Secretary to Registrar	1,650 00	

Stenographers:		
Miss E. M. Fasken	1.450 00	
Miss Dorothy Woods	950 00	
Wm. Calladine, Filing Clerk	750 00	
		$27,437 00

Superintendent's Office

A. D. LePan, Superintendent of Buildings and Grounds	$6,500 00	
W. H. Bonus, Assistant Superintendent	4.500 00	
Assistants:		
G. D. Maxwell	3.500 00	
E. G. Moogk	2.500 00	
J. Shortreed	2,400 00	
W. L. D. Carnie, Chief Clerk	2,350 00	
Miss M. D. Chisholm, Stenographer	1.350 00	
Clerks:		
Miss A. K. Wynn	1.350 00	
Miss E. Nicklin	1,350 00	
Miss R. E. Cannon	1.000 00	
Miss R. M. Rankin	950 00	
Miss M. E. Lee	900 00	
Miss M. R. LeGrow	800 00	
		$29,450 00

Miscellaneous

J. B. Bickersteth, Warden, Hart House (with living valued @ $675; on sick leave from 1 October)	$4.500 00	
J. R. Gilley, Acting Warden during absence on sick leave of Warden Bickersteth (salary paid by Hart House as Comptroller)	....	
J. R. Johnston, Assistant to Acting Warden from 1 October to 30 March, $1.200, plus bonus, $150	1,350 00	
Leonard Smith, Bedel, also Attendant and Messenger, President's Office	1,100 00	
		$6.950 00
		$113.785 17

2. PENSIONS AND RETIRING ALLOWANCES

University's contribution to Pension Funds for the year ending 30 June, 1938:			
Remitted to Teachers' Insurance and Annuity Association, New York, for credit of retiring allowances funded there (original contributory plan)	$31.673 01		
Less returned	442 64		
		$31.230 37	
Credited to Fund No. 2 (Academic, formerly non-contributory plan)		32.000 00	
Credited to Fund No. 3 (Administrative and Clerical Employees)		26,993 71	
Sundry annual allowances (voted separately and not chargeable to above funds) paid as detailed below:			
Sir Robert Falconer ($10,000 less amount charged to Pension Fund No. 2)	$7.600 00		
J. T. Fotheringham	500 00		
H. H. Langton	400 00		
D. J. Clark	250 00		
A. Wilson, 6 mos. to 31 December	362 50		
Mrs. A. C. Jones, 1 month to 31 July	50 00		
Widow's allowances:			
Mrs. M. Hope Gillespie	900 00		
Mrs. Christian Lynn	375 00		
Mrs. Ellen L. Sinclair	350 00		
		10.787 50	
			$101.011 58

3. PRESIDENT'S OFFICE

Office supplies, postage, printing and incidentals:		
President H. J. Cody, sundry disbursements	$23 89	
Postage	81 00	
University Associates of Canada, encylopaedia	12 00	
University Press, printing and stationery	713 50	
Accounts under $10 (3)	17 89	
		$848 28

4. Bursar's Office

Office supplies. postage. printing and incidentals ($2,867.77):		
Bostitch Ltd., stapler and staples	$14 00	
Burroughs Adding Machine Co., maintenance service	55 28	
Canadian Photo Copy Co., charts	20 56	
Grand & Toy, cheques, etc	248 50	
Might Directories. Ltd	32 40	
Office Specialty Mfg. Co., steel cabinet, transfer cases, guides, etc.	249 55	
Postage	525 00	
Robbins & Townsend. typewriter inspection	54 80	
Underwood-Elliott-Fisher Ltd., maintenance service and paper	48 70	
University Press, printing and stationery	1,189 63	
Accounts under $10 (9)	33 82	
The Bursar, disbursements:		
Meals for staff—overtime work, $292.50; hire of car for office business for one year, $75; exchange on cheques and postal notes, $84.61; sundries, $14.41; $466.52. less credit on exchange, $101.25	365 27	
Superintendent's Dept., labour, $21.41; material, $8.85	30 26	
Clerical assistance ($2,297.33):		
Mrs. H. Lilly. 4 weeks @ $20	80 00	
Mrs. I. McCormick, 29-1/3 weeks @ $18	528 00	
H. Pouwels, 28½ weeks @ $20, $586.66; 4 weeks, 4 days, @ $22. $102.67	689 33	
Honoraria for extra services as detailed under Salaries	1.000 00	
Stamp taxes and bank service charges	1.219 80	
		$6,384 90

5. Registrar's Office

Stationery and office supplies ($2,612.57):		
Addressograph Sales Agency, speedaumat cabinet, drawers and plates	$175 45	
P. E. Hyde, subscriptions to daily papers	21 75	
Might Directories Ltd., city directory	43 20	
Mimeograph Co., ink and stencils	28 85	
Murdock Stationery	83 25	
Office Specialty Mfg. Co., cabinet. desk, chair, cards, transfer cases, etc	442 42	
Postage	1,100 24	
Robbins & Townsend. typewriter inspection	18 40	
E. G. Taylor, addressograph inspection	14 65	
Underwood-Elliott-Fisher Ltd., typewriter, $141.75, less allowance on old machine, $30; paper, ribbons, etc	183 92	
University Press. printing and stationery	390 67	
Accounts under $10 (6)	23 75	
Sundry disbursements by Registrar	12 28	
Superintendent's Dept., labour	73 74	
Clerical assistance ($579):		
Miss A. I. Firth. 10 weeks @ $15 (see also Salaries)	150 00	
Mrs. F. P. Lloyd, 68½ hours	41 50	
K. M. McQuance, 2-2/3 weeks @ $15	40 00	
W. G. P. Merrifield, 3½ weeks @ $15	52 50	
Miss J. E. Woods. 19-2/3 weeks @ $15	295 00	
University Press. printing Arts calendar, curricula, etc	2,695 17	
	$5,886 74	
Less credits for clerical work, record cards, stencils, etc	75 66	
		$5,811 08

6. Superintendent's Office

Office supplies, printing, postage and incidentals ($2,005.46):		
Brown Bros., ledger sheets	$63 21	
R. G. Dalton Co., photostats and paper	16 24	
Domestic Brake Service, car repairs	12 50	
Grand & Toy, binder	22 95	
McMullin Publishers Ltd., tariff service	25 00	
National Motors Ltd., car repairs	10 58	
Office Specialty Mfg. Co., shelves and transfer cases	86 12	
Photographic Service, blue-prints	36 51	
Postage	273 00	

Remington-Rand Ltd., typewriters, $283.50, less allowance on old machines, $78.50; inspection, etc.	226 00	
Robbins & Myers, electric fan	33 66	
Robbins & Townsend, typewriter inspection and carbon	68 60	
Salem's Brake Service, car repairs	30 96	
Superintendent's travelling expenses re installation of new boilers at McGill and meeting of University Superintendents at Harvard, etc.	162 56	
University Press, printing and stationery	761 93	
Accounts under $10 (15)	67 13	
Sundry disbursements:		
Telegrams, etc., $13.59; car license, $7	20 59	
Superintendent's Dept., labour, $30.80; material, $57.12	87 92	
Incidental expenses re work on buildings:		
Labour, $193.98; material, $7.47	201 45	
Drafting assistance ($1,085.84):		
H. Stevenson, 36 weeks, ½ day	992 50	
A. H. Taylor, 4½ weeks	93 34	
Clerical assistance ($472.65):		
Miss G. Cottrell, 26 days	58 51	
Miss R. M. Coulter, 3 days	6 75	
Miss C. Hocking, 11 weeks, 2½ days	160 38	
Miss M. G. Sonley, 15 weeks	247 01	
	$3,765 40	
Less credit for Customs entry fees	46 75	
		$3,718 65

7. CONVOCATION HALL AND SIMCOE HALL

Heat and light		$4.281 60	
Gas, $80.20; water, $79.44		159 64	
Caretaker's supplies ($517.67):			
M. Langmuir Mfg. Co., bags		26 00	
Superintendent's Dept., material		491 67	
Cleaning ($4,958.88):			
Advance Window Cleaning Co.		29 70	
Allen Mfg. Co., laundry		42 29	
Toronto Window Cleaning Co.		5 00	
Superintendent's Dept., labour		4.881 89	
Repairs and renewals ($2.673.77):			
Wm. Bartlett & Son, awnings and shades		99 83	
Canadian Johns-Manville Co., sanacoustic tile		953 00	
Johnson Temperature Regulating Co., thermostat repairs		14 00	
Langley's Ltd., cleaning curtains		56 00	
Provincial Treasurer, public hall license		10 00	
Roberts & Son, frames		28 00	
John Smith, cushion repairs		16 00	
Accounts under $10 (3)		10 52	
Superintendent's Dept., labour, $1,129.29; material, $357.13		1.486 42	
Installing amplifiers ($852.08):			
Baldwin International Ltd., microphones		330 80	
Stromberg-Carlson Telephone Mfg. Co., amplifiers		96 80	
Accounts under $10 (2)		1 99	
Superintendent's Dept., labour, $238.78; material, $183.71		422 49	
Acting Postmaster and Chief Messenger, H. R. Cheney, 12 mos.		1,400 00	
Messenger and Post Office service ($1.846.61):			
Messengers @ $8.50 to $15 per week:			
J. Monkhouse, 52 weeks		780 00	
W. Sherman, 51 weeks		475 00	
J. R. Wilson, 50½ weeks		461 25	
T. Partridge, 8 weeks		68 00	
A. Mackie, 1 week		8 52	
L. Smith, 2 days		2 84	
Carfares		51 00	
		$16.690 25	
Less heat and light charged to Central Power Plant	$4.281 60		
Contribution by Royal Canadian Institute toward cost of amplifiers	250 00		
Credit for cleaning	160 00		
		4.691 60	
			$11,998 65

8. President's House

Repairs and renewals:		
Superintendent's Dept., labour, $29.52; material, $11.28	$40 80	
		$40 80
		$243.599 11

II. LIBRARY

9. Salaries

W. S. Wallace, Librarian (paid also $60 in Ontario College of Education)	$5,500 00	
Miss H. G. B. Woolryche, Assistant Librarian (paid also $50 in Ontario College of Education)	2,400 00	
Miss A. H. Young, Reference Librarian	2,000 00	
Heads of Departments:		
Miss M. L. Newton (Circulation — paid also $25 in Ontario College of Education)	2,200 00	
Miss E. V. Bethune (Cataloguing)	2,100 00	
Miss A. M. Cordingley (Periodical)	1,800 00	
Assistants:		
Miss A. E. Stennett	1,750 00	
Miss E. Creighton	1,700 00	
Miss J. Jarvis	1,650 00	
Miss E. Aldridge	1,650 00	
Miss M. H. Skinner	1,550 00	
Miss J. Rathbun	1,550 00	
Miss I. Trowern	1,450 00	
Miss A. Leonard	1,450 00	
Miss D. Dignum	1,400 00	
Miss M. L. Hewitt	1,400 00	
Miss E. L. Alexander	1,400 00	
Miss G. Williams	1,350 00	
Miss K. Ball	1,350 00	
Miss I. C. Hill (on leave of absence from 1 October to 31 May)	459 34	
Miss D. Shiell	1,350 00	
Miss V. A. Taylor	1,300 00	
Miss D. Tod	1.300 00	
Miss M. Robinson	1,250 00	
Miss Edith Cook	1,250 00	
Miss K. Wales	1,250 00	
Miss H. C. Wrightman	1,200 00	
Miss R. Haldenby	1,200 00	
Miss F. E. Bertram	1.200 00	
Miss J. Knowlton	1.200 00	
Miss J. McBeth	1,200 00	
Miss M. Thompson	1,200 00	
Miss Sheila Bell	1.200 00	
Miss M. Buchan (part time)	500 00	
Assistants (incomplete year) @ $1,200 per annum:		
Miss S. Tisdall, 4 mos. from 1 July	400 00	
Miss M. Rose, 8 mos. from 1 Nov.	800 00	
Miss M. F. Hall, 10 mos. from 1 July	1,000 00	
Miss E. Wilson, 2 mos. from 1 May	200 00	
James A. Patterson, Attendant (with rooms, heat and light valued at $420 as Caretaker of building)	1,150 00	
Wm. Fryer, Messenger, 41 weeks, 2 days	330 66	
Stackmen:		
Stanley South, 12 mos.	707 42	
Stuart Brammer, 9 mos., 11 days	468 33	
Arthur Taylor, 1 month	60 00	
John Jeanneret. 23 days	37 10	
Bruce Brammer, 19 days	31 67	
		$57.894 52

10. Library Maintenance

General Library Appropriation (Current Account):		
Books and periodicals ($35,609.75):		
Affiliated Music Corporation	$342 65	
Edw. G. Allen & Son	3.982 89	
Thos. Allen	122 72	
American Chemical Society	77 38	
American Dental Association	60 86	

American Institute of Mining and Metallurgical Engineers	33	22
American Journal of Physiology	27	54
American Library Association	100	15
American Medical Association	82	25
American Society for Testing Material	48	39
D. Appleton Century Co.	25	74
Baker, Taylor Co.	1,786	87
Benday Books	31	71
Biological Abstracts	25	44
B. H. Blackwell Co.	95	57
A. Bonnier Publishing Co.	117	61
R. R. Bowker	53	21
Braus-Riggenbach	152	00
F. A. Brockhaus	9.251	57
Burroughs & Co.	26	25
Butterworth & Co.	71	50
Cadmus Book Shop	41	43
Cambridge University Press	146	18
Canada Law Book	68	00
Canadian Law List Publishing Co.	26	10
Carswell & Co.	282	78
B. E. Case	31	16
Honore Champion	74	45
Citizens' Research Institute of Canada	25	00
Clark, Irwin & Co.	536	96
Copp, Clark Co.	34	06
Gaston E. Dau	53	89
Dauber & Pine Book Shop	28	40
Dawson Subscription Service	216	05
J. M. Dent & Sons	52	71
Walter de Gryter & Co.	91	87
Doubleday, Doran & Gundy	42	99
G. Ducharme	126	79
Egypt Exploration Society	42	30
Engineering Index Inc.	50	65
F. W. Faxon Co.	751	68
Henry George Fiedler	257	36
Gustav Fock	562	92
Garnet & Bell	30	00
Gauthier & Villars	183	59
Paul Geuthner	109	41
P. Gilbert	25	00
Gurney & Jackson	56	86
H. M. Stationery Office	34	26
Harper Bros.	40	11
Hirschwaldsche Buchhandlung	108	95
Ulrico Hoepli	47	24
Henry Holt & Co.	84	66
Johns Hopkins Press	63	45
International Labour Office	40	28
Journal of Biology and Chemistry	38	47
Journal Press	50	24
The Kingsland Co.	39	00
Otto Lange	878	96
Librairie E. Droz	663	71
J. B. Lippincott Co.	54	12
Longmans, Green & Co.	200	11
Luzac & Co.	100	92
McAinsh & Co.	49	78
McGraw-Hill Book Co.	376	23
Geo. J. McLeod Ltd.	53	20
MacMillan Co.	1.092	08
Masson & Cie.	100	44
Modern Language Association of America	33	90
Musson Book Co.	162	08
Thos. Nelson & Sons	238	72
N. V. Martinus Nijhoff	532	45
A. Nizet & M. Bastard	531	39
J. A. Owen	50	24
Oxford University Press	66	62
Peabody Museum	26	71

Sir Isaac Pitman & Sons	28 57
Psychological Review Co.	34 64
G. Reuschel	55 72
Ryerson Press	173 11
S. J. R. Saunders	203 28
Simpkin, Marshall Ltd.	1.653 27
Recueil Sirex	58 64
G. E. Stechert & Co.	302 97
Superintendent of Documents, Washington	75 84
N. V. Swetz & Zeitlinger	1.232 99
Chas. C. Thomas	57 29
Thoms & Eron	33 22
John Tiranti & Co.	127 37
Trans-Canada Press	27 75
Trustees, British Museum	26 97
University Associates of Canada	41 25
University of Chicago Press	88 62
Friedr, Viewig & Sohn	68 08
Dr. T. L. Walker	100 00
Frederick Welly	27 02
E. Weyhe	25 06
John Wiley & Sons	204 28
Williams & Wilkins Co.	109 33
H. W. Wilson Co.	154 47
Wistar Institute of Anatomy and Biology	137 07
Wittenborn & Co.	71 37
S. A. Nicola Zanichelli	29 96
Samuel M. Zwemer	50 55
University Press	1,201 86
Accounts under $25 (425)	2,976 77

General Expenses ($12.035.18):

Library of Congress, cards		193 56
Lowe-Martin Co.. cards		229 03
Office Specialty Mfg. Co., cabinets, desks, truck, etc.		311 49
Parker's Dye Works. cleaning rug		37 10
Postage		513 00
Rekordak, Ltd., projector		185 00
Remington-Rand Ltd.. typewriters, $267.30, less allowance on old machines, $67.30; labels, etc.		239 61
Robbins & Townsend. typewriter inspection		112 00
University Press, printing and stationery		9,403 57
Accounts under $25 (10)		62 20
Superintendent's Dept.. freight, $513.78; labour. $128.09; material, $106.75		748 62
		$47,644 93
Less replacement of books lost by departments. $92.11; sundry credits, $13.78		105 89
		$47.539 04
Of which charged to sundry funds as follows:		
Carnegie Library, University College	$906 98	
Dental, Harry R. Abbott	494 94	
John Squair Fund No. 2	96 12	
King Alfred Millenary	351 97	
Phillips Stewart Bequest	34 98	
		1,884 99
		$45.654 05

Transactions by Librarian:

Balance in his hands 1 July, 1937, $169.68: credited from fines. $612.25; replacement of books lost. $92.84; miscellaneous. $24.17; graduates' deposits, $974.52	$1,873 46
Deposits refunded. $641; miscellaneous, $2.09; left in Librarian's hands to be accounted for, $96.85	739 94
	$1,133 52

Transferred to Trust Funds (Schedule 3) balance of graduates' deposits	333 52		
Credited to this account		800 00	
			$44.854 05
Assistance:			
At $80 to $85 per month:			
Miss F. English		$1.020 00	
Mrs. P. Richardson		71 05	
At $60 to $75 per month:			
Miss J. Arnold		621 79	
Miss M. Bealy		48 00	
Miss I. Brand		142 10	
Miss E. Brunke		496 00	
Miss Mary Cash		720 00	
A. Custance		184 17	
Miss E. Fleury		420 00	
Mrs. J. G. Gibbons		7 25	
Mrs. M. Gzowski		27 10	
Miss E. Heighington		837 77	
Miss I. Keys		560 00	
Miss E. Killam		756 45	
Miss E. McLean		27 10	
Miss R. McRostie		631 40	
Miss C. Nisbet		406 46	
Miss M. Rose		212 80	
Miss M. Slater		544 22	
Miss A. Stevens		636 77	
Miss B. Strong		276 78	
Miss H. Troop		673 40	
Miss E. Wilson		503 40	
At $35 to $50 per month:			
E. J. Brower		29 70	
J. K. Brower		11 60	
Miss E. Day		29 62	
K. G. Jeanneret		6 45	
Mrs. D. Lewis		10 00	
D. Tweedell		20 65	
At 25c to 75c per hour:			
Miss E. E. Atkin		12 00	
Miss A. J. Bennett		28 50	
Miss E. M. Murray		24 00	
Miss M. Porter		30 00	
Wm. Prest		56 00	
Miss R. Reid		44 00	
		$10,126 53	
Less credits		509 24	
$9,617.29 charged as follows:			
Occasional assistance, including opening Library in evenings			6.910 52
Special grant for re-classification			2,706 77
Alterations and fixtures ($994.55):			
Office Specialty Mfg. Co., cabinets, etc.		$195 50	
Superintendent's Dept., labour, $505.82; material, $293.23		799 05	
			994 55
			$55.465 89

II. Library Building

Heat and light	$3.485 61	
Gas, $55.44; water, $90.46	145 90	
Caretaker's supplies:		
Superintendent's Dept., material	385 48	
Cleaning ($2.014.94):		
Allen Mfg. Co., laundry	15 36	
Canadian Cleaning Co., cleaning windows	35 00	
Superintendent's Dept., labour	1.964 58	
Repairs and renewals ($2.095.49):		
Wm. Bartlett & Son, awnings	38 61	
City Treasurer, elevator license	5 00	
T. Eaton Co., decorating	58 94	

Electrolux Ltd., cleaner repairs		72 15	
Italian Mosaic & Tile Co., tiling		17 54	
Johnson Temperature Regulating System, heating system repairs		40 95	
Premier Vacuum Cleaner Co., cleaner repairs		13 19	
Routery Bros., plaster repairs		12 00	
Superintendent's Dept., labour, $1,304.42; material, $532.69		1,837 11	
Caretaker, with living quarters valued at $420 (paid from salaries as Library Attendant)		....	
		$8.127 42	
Less heat and light charged to Central Power Plant	$3.485 61		
Sundry credits	9 30		
		3,494 91	
			$4,632 51
			$117,992 92

III. 12. Royal Ontario Museum

University's share of maintenance advanced to the Trustees of the Royal Ontario Museum under R. S. O. 1927, Cap. 343	$77,847 50

IV. ATHLETICS, PHYSICAL TRAINING. MILITARY STUDIES. ETC.

13. Athletics and Physical Training — Men

(a) Salaries:		
T. A. Reed, Secretary, Athletic Directorate	$5.500 00	
Gymnasium Instructors:		
W. H. Martin, also Supervisor of Compulsory Physical Training, 10 mos., $2,700; additional allowance granted, $160	2.860 00	
J. E. McCutcheon, also Supervisor of Interfaculty Activities, 10 mos.	2.600 00	
C. Zwygard, 6 mos.	1,000 00	
W. W. Winterburn, Swimming Instructor, 10 mos.	2,600 00	
Part-time Instructors (Sessional):		
H. Phillips	400 00	
L. W. Black	250 00	
C. Chilcott — honoraria	250 00	
M. Glionna	200 00	
T. Matsumoto	25 00	
Locker Attendants:		
W. Rimmer, Chief Locker and Attendance Clerk	2.100 00	
C. Carruthers, 8 mos.	800 00	
J. R. Rimmer, 34 weeks @ $15	510 00	
A. Jordan, 28 weeks @ $15	420 00	
M. R. Depew, 25 weeks @ $15	375 00	
Miss K. Boyd, Clerical Assistant, 10 mos.	750 00	
	$20.640 00	
Less Secretary's salary charged to Athletic Association	5.500 00	
		$15,140 00
(b) Maintenance of Department:		
Attendance records, card system ($128.72):		
Office Specialty Mfg. Co., cabinet	$19 50	
Postage	9 15	
Thomas & Corney Typewriters Ltd., share of cost of typewriter	30 00	
University Press, printing and stationery	70 07	
Gymnastic appliances and repairs to equipment ($824.73):		
Aikenhead Hardware Ltd., hardware	10 62	
Canadian Fairbanks-Morse Ltd., casters	10 88	
Harold B. Kennedy, basketballs	38 25	
L. Parkin, mat repairs	10 00	
E. Siemonsen, apparatus	210 00	
Robt. Simpson Co., attendants' jackets	10 80	
Toronto Radio & Sports Co., uniform and balls	41 70	
John T. Walters, repairs to balls and gloves	16 65	
Harold A. Wilson, balls, gloves, fencing and gymnasium equipment	308 58	
Accounts under $10 (3)	13 75	
Superintendent's Dept., labour, $104.97; material, $48.53	153 50	
		$953 45
		$16.093 45

14. Athletic and Physical Training — Women

(a) Salaries:		
Miss I. G. Coventry, Physical Director	$2,000 00	
Miss J. M. Forster, Assistant Physical Director, 8 mos. (paid also $150 for Extension Work)	1,300 00	
Instructors in Swimming:		
Miss A. Cochrane, 7 mos. (paid also $150 for Extension Work)	1,200 00	
A. L. Cochrane, Assistant, 7 mos.	300 00	
Mrs. Margaret Graham, Clerical and Gymnasium Assistant, 8 mos. (paid also $50 in Diploma Course; $278 as Pianist; $86.50 in Ontario College of Education, and $40 for Extension Work)	300 00	
Miss A. E. M. Parkes, Secretary-Treasurer, Women's Athletic Directorate (Sessional — paid also $900 by Students' Administrative Council)	350 00	
		$5,450 00
(b) Maintenance of Department:		
Sundry expenses ($555.82):		
Allen Mfg. Co., laundry	$23 09	
Miss I. G. Coventry, piano rental	42 00	
Mrs. Margaret Graham, pianist, 278 hours	278 00	
Grand & Toy, filing cabinet	45 70	
Harold A. Wilson, vaulting box, hurdles, arrows, balls, etc.	134 78	
University Press, printing and stationery	17 84	
Accounts under $10 (3)	3 50	
Superintendent's Dept., labour, $4.90; material, $6.01	10 91	
Janitor service at night classes, A. J. Maycock	48 25	
	$604 07	
Less credit for towel service at swimming pool	57 30	
		$546 77
(c) Course for Diploma in Physical Education:		
Honoraria to Instructors:		
Dr. H. D. Ball, Anatomy (see also Anatomy)	$150 00	
Miss K. McMurrich, Anatomy and Kinesiology (see also Anatomy)	150 00	
D. Y. Solandt, Physiology (see also Physiology)	150 00	
Mrs. Margaret Graham, Theory of Music (see also above)	50 00	
Mrs. Leslie Jones, Voice Training	50 00	
		$550 00
		$6,546 77

15. Health Service — Men

(a) Salaries:		
G. D. Porter, Director	$5,250 00	
J. M. Thomas, Office Assistant, 8 mos.	1,000 00	
		$6,250 00
(b) Maintenane of Department:		
Examining Physicians ($1,180):		
R. G. Armour	$10 00	
Noble Black	100 00	
A. H. W. Caulfeild	10 00	
T. A. Crowther	100 00	
C. B. Farrar	100 00	
Frank Hassard	100 00	
Ross A. Jamieson	20 00	
A. G. McPhedran	200 00	
S. J. Magwood	100 00	
John Oille	20 00	
Frank Park	100 00	
D. E. Robertson	20 00	
W. E. L. Sparks	100 00	
Addison Taylor	100 00	
G. Wright Young	100 00	
Surgical assistance and equipment ($400):		
J. A. MacFarlane	200 00	
R. H. Thomas	200 00	
Medical and office supplies and printing, including X-Ray examinations ($290.68):		
J. F. Hartz Co., medical supplies	114 28	
Toronto General Hospital, bandages	10 37	

Toronto Western Hospital, X-Rays	106 00	
University Press, printing and stationery	40 85	
Accounts under $10 (3)	19 18	
		$1,870 68
		$8.120 68

16. Health Service — Women

(a) Salaries:		
Dr. Edith H. Gordon, Medical Advisor (paid also $19 for Extension Work)	$3,400 00	
Miss M. Jackes, Office Assistant, 8 mos.	1,150 00	
		$4,550 00
(b) Maintenance of Department:		
Expenses of Medical Office and examining room, including consultants, X-Ray, etc.:		
Allen Mfg. Co., laundry	$18 25	
Ingram & Bell, medical supplies	53 84	
H. E. LeMasurier, lantern plates	11 25	
Office Specialty Mfg. Co., steel file	64 75	
Owl Drug Stores, chemicals	21 40	
Sani-Tread Co., shower slippers	17 50	
Women's College Hospital, X-Rays	15 00	
University Press, printing and stationery	46 52	
Accounts under $10 (7)	31 34	
Superintendent's Dept., labour	7 13	
		$286 98
		$4.836 98

17. Military Studies

(a) Salaries:		
Major M. B. Watson, Director (paid also $200 for Extension Work)	$2.000 00	
W. A. Baughurst, Assistant, 10 mos.	980 00	
		$2,980 00
(b) Maintenance of Department:		
Office and general expenses:		
Roneo Co., paper, etc.	$19 50	
University Press, printing and stationery	24 65	
Accounts under $10 (13)	46 59	
Superintendent's Dept., labour, $9.82; material, $8.29	18 11	
		$108 85
		$3.088 85

18. Hart House — Share of Maintenance

Heat and light	$18.455 64	
Cleaning, etc., of Gymnasium Wing:		
Comptroller, Hart House	4.200 00	
Repairs and renewals ($7,747.39):		
City Treasurer, elevator licenses	15 00	
Italian Mosaic & Tile Co., tiling	11 96	
Routery Bros., plaster repairs	174 20	
Sanitary Products Co., floor finish, etc.	108 90	
Vulcan Asphalt & Supply Co., mastic floor	134 45	
Accounts under $10 (2)	6 23	
Superintendent's Dept., labour, $5.222.28; material, $2.074.37	7.296 65	
	$30.403 03	
Less heat and light charged to Central Power Plant	18.455 64	
		$11.947 39

19. Women's Building — 44 Hoskin Avenue

Maintenance:		
Fuel ($232.66):		
Central Coal Co.	$221 11	
P. Burns Co.	10 10	
Superintendent's Dept., labour	1 45	
Gas, $13.72; electric current, $53.48; water, $8	75 20	
Caretaker's supplies:		
Superintendent's Dept., material	30 03	

Cleaning and furnaceman ($370.16):		
Accounts under $10 (2)	9 08	
Superintendent's Dept., labour	361 08	
Repairs and renewals:		
Superintendent's Dept., labour, $97.20; material. $23.95	121 15	
		$829 20

20. Military Studies Building

Maintenance:		
Light	$151 82	
Fuel ($466.07):		
P. Burns Co.	60 60	
Central Coal Co.	405 47	
Gas. $19.56; water, $15.01	34 57	
Caretaker's supplies:		
Superintendent's Dept.. material	58 14	
Cleaning ($304):		
New York Window Cleaning Co.	4 00	
Superintendent's Dept., labour	300 00	
Repairs and renewals ($401.10):		
Charles H. Brooks. blackboard lighting	12 00	
City Treasurer. meter repairs	5 05	
Superintendent's Dept., labour, $209.34; material. $174.71	384 05	
	$1,415 70	
Less light charged to Central Power Plant	151 82	
		$1.263 88
		$52.727 20

V. 21. EXAMINATIONS

	Remuneration to Examiner	Presiding Officer	Attendance	Totals
Adams, S. M.	11 00			11 00
Adelman, M.			6 00	6 00
Ainslie, D. S.	8 38	21 00		29 38
Alford, John	2 63			2 63
Allcut, E. A.	17 75			17 75
Anderson, F. H.	5 25			5 25
Anderson, J. M.	12 75			12 75
Anderson, P. G.	9 75			9 75
Andison, J. G.	2 50			2 50
Angus, R. W.	21 75			21 75
Ante, I. H.	20 75			20 75
Anthes, R. G.			7 50	7 50
Ardagh, E. G. R.	17 12			17 12
Armour, R. G.	45 00			45 00
Armstrong, H. G.	44 25			44 25
Arnold, R. K.		39 00		39 00
Arthur, E. R.	1 75	24 00		25 75
Assie, G. L.		24 00		24 00
Auld, F. C.	17 00			17 00
Bailey. D. L.	12 00			12 00
Bailey, H. M.			22 50	22 50
Bailey, Miss N.			24 00	24 00
Baillie, W. H. T.	6 25	69 00		75 25
Bain, J. W.	6 75			6 75
Baker, A. W.	5 25			5 25
Balthazard, Miss I. G.	9 63	24 00		33 63
Banks, E. A. H.	7 25			7 25
Banting, E. W.	11 00			11 00
Barker, A. E.		21 00		21 00
Batt, H. E.	18 50			18 50
Bayly, B. deF.	5 50			5 50
Beamish, F. E.	11 25			11 25
Beatty, S.	32 75			32 75
Benson, Dr. C. C.	2 75			2 75
Best, C. H.	11 00			11 00
Beynon, C. E.			9 00	9 00
Biggs, G. M.	45 00			45 00
Birss, R. J.			10 50	10 50
Black, E. C.	2 75			2 75
Blackwood, W. C.	18 00			18 00
Bladen. V. W.	1 75			1 75
Blake, Miss P. M.	8 50			8 50
Blatz, W. E.	5 25			5 25
Boeschenstein, H.	83 50	24 00		107 50
Bonnycastle, D. D.		18 00		18 00
Boswell, M. C.	16 25			16 25
Bott, E. A.	6 25			6 25
Bowen, A. J.			139 50	139 50
Branion, H. D.	26 25			26 25
Brauer. R.		24 00		24 00
Bridgland. C. J.			9 00	9 00
Brieger, P.	2 63	12 00		14 63
Britnell, G. E.	5 25			5 25
Brooks, E. F.	45 00			45 00
Brown, Alan	38 25			38 25
Brown, G. W.	5 50			5 50
Brown, R. J.	5 25	27 00		32 25
Brown, W. Hurst	45 00			45 00
Bryant, L. R.	21 75	45 00		66 75
Burden, H. J.		12 00		12 00
Burk, J. D.	9 75			9 75
Burt-Gerrans. J. T.	5 50			5 50
Burton, E. F.	6 25			6 25
Caesar, L.	9 75			9 75
Cameron, G. C.	28 50			28 50

	Remuneration to Examiner	Presiding Officer	Attendance	Totals
Campbell, A. A.	50 00			50 00
Campbell, W. R.	50 00			50 00
Cano, J.	2 00	21 00		23 00
Carscadden, W. G.	45 00			45 00
Carswell, J. M.			18 00	18 00
Carswell, W. E.		27 00		27 00
Castell, C. H.		45 00		45 00
Cates, H. A.	8 25	33 00		41 25
Cavanagh, W. D.	9 75			9 75
Chant, S. N. F.	2 50			2 50
Chapman, Miss D.	2 75			2 75
Clark, C. C.	36 00			36 00
Clark, R. M.			13 50	13 50
Clarkson, F. A.	13 50			13 50
Clawson, W. H.	8 25	54 00		62 25
Coatsworth, Miss H. R.	5 50			5 50
Coburn, Miss K. H.	5 25			5 25
Cochrane, C. N.	8 50			8 50
Cockburn, J. R.	10 50			10 50
Cole, Miss A. C.	2 50	48 00		50 50
Cole, C. E. C.	50 00			50 00
Conboy, F. J.	35 75			35 75
Cook, Miss A. L.	5 00			5 00
Cook, H. H.			7 50	7 50
Cosbie, W. G.	45 00			45 00
Cosens, G. G.		12 00		12 00
Cosgrave, G. P.	13 25			13 25
Couch, J. H.	51 50			51 50
Cowling, T.	63 25			63 25
Cox, M. A.	24 13			24 13
Craigie, E. H.	5 75	21 00		26 75
Crerar, S. R.	5 50			5 50
Crossley, Miss K. M.			28 50	28 50
Crouch, S. S.	19 50			19 50
Currelly, C. T.	1 75			1 75
Dalrymple, D.			25 50	25 50
Daniells, J. R.	5 00			5 00
Danis, J. T.	45 00			45 00
Dauphinee, J. A.	65 70			65 70
Davey, A.	21 75			21 75
Detweiler, H. K.	94 75			94 75
Doan, K. H.			27 00	27 00
Dore, Rev. J. W.	5 25			5 25
Drummond, W. M.	10 00			10 00
Duff, G. L.	1 00			1 00
Duff, T. A. J.	84 00			84 00
Dunbar, W. B.	5 00	36 00		41 00
Dwight, T. W.		10 00		10 00
Dyer, F. C.		24 00		24 00
Edgar, P.	1 25			1 25
Edwards, G. R.			22 50	22 50
Elliott, H. C.	10 00			10 00
English, B. R.		30 00		30 00
Evans, K. C.		18 00		18 00
Ewens, W. E.			7 50	7 50
Falconer, J. G.	50 00			50 00
Farquharson, R. F.	95 00			95 00
Farrar, C. B.	44 65			44 65
Fasken, N. R.			15 00	15 00
Ferguson, F. L.	7 00			7 00
Finkelman, J.	17 00			17 00
Finlayson, L. D.			1 50	1 50
Fisher, J.	5 00	24 00		29 00
Fletcher, A. A.	45 00			45 00
Ford, H. E.	1 00			1 00
Ford, Dr. Norma	11 25			11 25
Foreman, A. S.			10 50	10 50
Fowler, W. J. R.	18 50			18 50

	Remuneration to Examiner	Presiding Officer	Attendance	Totals
Fraser, Miss J. A.			1 50	1 50
Fricker, H. A.	79 24			79 24
Fry, J. W.			6 00	6 00
Frye, H. N.			19 50	19 50
Fulmer, H. L.	11 00			11 00
Funnell, W. S.	5 50			5 50
Gaby, R. E.	45 00			45 00
Gallie, W. E.	10 25			10 25
Galloway, S. H.			6 00	6 00
Gardiner, W. J.	11 50			11 50
Garvey, Rev. E. C.	6 25			6 25
George, Ruggles	16 00	12 00		28 00
Glazebrook, G. P. deT.	52 75			52 75
Glover, J. S.	18 50			18 50
Goggio, E.	5 25	21 00		26 25
Goldsmith, P. G.	45 00			45 00
Gould, S. H.	5 25	30 00		35 25
Graham, Duncan	5 00			5 00
Graham, J. W.	6 00			6 00
Graham, R. R.	54 75			54 75
Grant, R. R.	13 25			13 25
Gray, K. G.	12 90			12 90
Gray, W. M.			24 00	24 00
Griffith, B. A.	5 50	21 00		26 50
Guess, G. A.	24 25			24 25
Gunvaldsen, K. M.	31 25			31 25
Haffey, Rev. H. J.	5 25			5 25
Hagerman, A. R.	45 00			45 00
Haist, R. E.		6 00		6 00
Hallman, G. L.			13 50	13 50
Hally, G. H.		18 00		18 00
Ham, A. W.	2 10			2 10
Hamer, I. M.			7 50	7 50
Hamilton, F. W.	9 75	45 00		54 75
Hamilton, P. B.		18 00		18 00
Hare, F. A.	3 50			3 50
Hargreaves, Miss M. M.		12 00	45 00	57 00
Harris, C. W.	45 00			45 00
Harris, R. I.	51 00			51 00
Hart, C. W. M.	6 75			6 75
Hartmanshenn, Miss H. M.			25 50	25 50
Haultain, H. E. T.	5 75			5 75
Havelock, E. A.		21 00		21 00
Hawkins, W. B.			7 50	7 50
Haygarth, Miss F. M.	11 50		25 50	37 00
Heard, J. F.	8 38			8 38
Hedman, T.	10 00			10 00
Helwig, C. E.			6 00	6 00
Henderson, V. E.	13 50			13 50
Henderson, V. L.			6 00	6 00
Hepburn, J.	90 25			90 25
Hewer, W. A. M.			6 00	6 00
Hicks, R. K.	33 00			33 00
Higgins, E. A.			6 00	6 00
Hodgins, L. C. A.	7 25			7 25
Hogg, F. S.	18 88			18 88
Holman, W. L.	7 00			7 00
Hood, G. L.			7 50	7 50
Hosie, R. C.	6 00	17 00		23 00
Houle, A. U.			7 50	7 50
Houpert, J. A.	2 50			2 50
Howitt, J. E.	10 50			10 50
Howland, G. W.	45 00			45 00
Humphreys, H. L.	3 50			3 50
Hunter, A.	5 50			5 50
Hurst, R. O.	136 75			136 75
Ide, F. P.	5 25			5 25
Ireton, H. J. C.		27 00		27 00

	Remuneration to Examiner	Presiding Officer	Attendance	Totals
Jackson, K. B.	16 25			16 25
Jackson, W. J.			6 00	6 00
Jacobs, E. L.			25 50	25 50
Janes, R. M.	50 00			50 00
Jennings, S. A.			25 50	25 50
Jones, L. E.			9 00	9 00
Jones, T. H.	7 25			7 25
Keegan, R.	7 75			7 75
Kendall, E. W.	7 00			7 00
Kennedy, W. P. M.	11 50			11 50
Kenrick, F. B.	27 75			27 75
Ketchum, J. D.	6 00			6 00
Kilburn, L. A.	27 50			27 50
King, J. T.	5 25			5 25
Kingston, Rev. G. F.	5 75	45 00		50 75
Kirkwood, W. A.	6 00	24 00		30 00
Klenn, W.	3 25			3 25
Knox, R. G.	12 25			12 25
Kreutzer, J.	45 12	15 00		60 12
Krieger, Miss C. C.	16 75	3 00		19 75
Krueger, L. F.	19 00			19 00
Kuitunen, Mrs. E.			33 00	33 00
Lacey, A.		24 00		24 00
LaFlamme, Estate of A. K.	2 50			2 50
Laing, Miss J. C.	5 25	15 00		20 25
Lamon, Miss F. E.		6 00	27 00	33 00
Lange, V.		24 00		24 00
Langford, R. R.	12 50			12 50
Lauchland, L. S.			7 50	7 50
Lazier, M. J. C.	12 00			12 00
LeBel, Rev. E. C.	10 75	24 00		34 75
Ledoux, Mme. J.		30 00		30 00
Lehmann, A. J. V.	16 50			16 50
Lewis, E. P.	25 90			25 90
Lewis, F. I.	45 00			45 00
Lorriman, F. R.	13 25			13 25
Loudon, J. D.	45 00			45 00
Loudon, T. R.	11 75			11 75
Lowe, Rev. J.		24 00		24 00
Lowry, W. H.	50 00			50 00
McAndrew, W. J.	4 50			4 50
MacArthur, J. W.	2 88			2 88
MacCallum, H. R.	8 75			8 75
McConkey, O.	16 00			16 00
McCorkell, Rev. E. J.	19 25			19 25
McCullogh, W. S.	5 75	30 00		35 75
McCurdy, W. J.	8 75	24 00		32 75
MacDonald, D. I.			22 50	22 50
Macdonald, E. W.	5 00			5 00
Macdonald, J. F.	8 00			8 00
McDonald, J. L.	45 00			45 00
MacDonald, Miss M. D.	6 25			6 25
Macdonald, Miss M. M.			21 00	21 00
McDougall, D. J.	17 50			17 50
Macdougall, L. G.			7 50	7 50
MacFarlane, J. A.	45 00			45 00
McGahey, Rev. J.	10 50			10 50
MacGillivray, J. R.		21 00		21 00
McGilvray, C. D.	37 00			37 00
McIlwraith, T. F.	11 50			11 50
McInnis, E. W.	5 00			5 00
McIntosh, R. A.	30 75			30 75
McIntosh, W. G.	5 50			5 50
MacKay, L. A.	11 13	24 00		35 13
Mackenzie, A. J.	45 00			45 00
McKinley, D. W. R.			27 00	27 00
McLaughlin, R. R.	5 50			5 50
MacLean, A.	5 25			5 25

	Remuneration to Examiner	Presiding Officer	Attendance	Totals
McLean, E. C.	17 12			17 12
MacMillan, Sir Ernest	71 75			71 75
McMurrich, Miss K. I.	5 25			5 25
McPhedran, A. G.	45 00			45 00
McPhedran, J. H.	45 00			45 00
McPhedran, W. F.	45 00			45 00
McPherson, W. J.			25 50	25 50
Macrae, H. M.	45 00			45 00
McRostie, G. P.	15 50			15 50
Madill, H. H.	1 75	27 00		28 75
Magner, Wm.	9 70			9 70
Maltby, E. J.	45 00			45 00
Marks, B.			6 00	6 00
Martin, W. H.	8 25			8 25
Meek, T. J.	22 25			22 25
Meen, Miss M. K.			1 50	1 50
Melson, J. W.	5 25			5 25
Miller, H. C. H.			31 50	31 50
Millman, P. M.	5 25	24 00		29 25
Mitchell, C. H.	5 25			5 25
Moffatt, R. C.	30 00			30 00
Mohun, W. A.			6 00	6 00
Montgomery, A. E.	12 50			12 50
Montgomery, R. J.	5 25	30 00		35 25
Moore, E. S.	1 00			1 00
Morley, Miss S. G.		54 00		54 00
Morrison, C. F.		21 00		21 00
Morrison, W. B.			7 50	7 50
Muckle, Rev. J. T.	5 25			5 25
Mueller, Miss V. E.		27 00		27 00
Murphy, Miss A.	4 88			4 88
Murray, D. W. G.	45 00			45 00
Myers, C. R.	31 00			31 00
Needler, Miss M. C.	5 75			5 75
Newcombe, J. A.	10 50	39 00		49 50
Nolan, Miss L. E.	2 88			2 88
Okulitch, V. J.	5 25			5 25
Ozburn, R. H.	10 50			10 50
Parker, C. B.	45 00			45 00
Parker, J. H.	11 50		30 00	41 50
Parker, W. E. B.			6 00	6 00
Parkes, Miss A. E. M.		27 00		27 00
Parkinson, J. F.	9 75			9 75
Parsons, A. L.	15 25			15 25
Paul, E. W.	34 00			34 00
Piersol, W. H.	3 15			3 15
Porter, A. M.		3 00		3 00
Porter, Miss M. E.			28 50	28 50
Potter, H. R.	18 50			18 50
Pounder, I. R.	26 75			26 75
Pratt, E. J.	11 50			11 50
Pratt, Miss V. L.		39 00		39 00
Preston, R. A.		24 00		24 00
Price, H. W.	6 50			6 50
Price, Dr. R. Margarite		27 00		27 00
Quinlan, Miss F. M.	12 50	48 00		60 50
Rae, C. A.	45 00			45 00
Rae, J. J.	31 50			31 50
Raithby, G. E.	15 50			15 50
Rannie, W. D.			22 50	22 50
Rapson, W. H.			19 50	19 50
Reed, Miss E. J.		6 00		6 00
Reid, J. E.			13 50	13 50
Reid, Spence	45 00			45 00
Rice, H. V.		27 00		27 00
Ricker, E. A.			6 00	6 00
Riddell, R. G.		21 00		21 00
Riddle, Miss W. C.	5 25	60 00		65 25

	Remuneration to Examiner	Presiding Officer	Attendance	Totals
Riese, Miss L.		27 00		27 00
Riley, C. W.	16 50			16 50
Risdon, F. E.	6 75			6 75
Roberts, J. A.			3 00	3 00
Roberts, Miss J. S.	5 25			5 25
Robertson, D. E.	45 00			45 00
Robertson, H. G.	4 13	24 00		28 13
Robertson, S. R.			36 00	36 00
Robinson, D. A. F.	23 25	21 00		44 25
Robinson, G. deB.	7 50			7 50
Robinson, T. A.	45 00			45 00
Robinson, W. L.	19 15			19 15
Roddy, Miss L.			28 50	28 50
Roseborough, M.			33 00	33 00
Ross, J. W.	50 00			50 00
Rotenberg, A. B.			25 50	25 50
Rous, C. C.	5 75			5 75
Rowe, T. L.			9 00	9 00
Ruhnke, G. N.	28 00			28 00
Ryerson, E. S.	65 75			65 75
Rykert, H. E.	45 00			45 00
Sagar, W. L.		21 00		21 00
Satterly, Prof. J.	10 75			10 75
Satterly, J.	15 50			15 50
Saunders, R. M.		24 00		24 00
Scarrow, A. N.		24 00		24 00
Schofield, F. W.	42 50			42 50
Scott, Miss L. C.	5 00			5 00
Scott, Paul	65 50			65 50
Scott, Wm. A.	117 50			117 50
Shanks, G.	9 70			9 70
Shaw, J. E.	5 00			5 00
Shenstone, N. S.	50 00			50 00
Shepherd, A. L.		27 00		27 00
Shepherd, Miss K. G.			28 50	28 50
Sheppard, N. E.	6 25			6 25
Shutt, D. B.	9 75			9 75
Sifton, H. B.	6 75			6 75
Smallfield, H. A.	9 75			9 75
Smith, Miss A.			4 50	4 50
Smith, C. G.	27 75			27 75
Smith, E. A.	2 63			2 63
Smith, Miss F. A.	5 25			5 25
Smith, H. G.	8 63			8 63
Smith, Leo	86 62			86 62
Smith, V. G.	12 25	24 00		36 25
Sneath, J.			1 50	1 50
Snell, H. B.			22 50	22 50
Snyder, E. S.	26 25			26 25
Spence, J. J.		39 00		39 00
Spinks, G. W.	16 75			16 75
Sproule, W. H.	19 50			19 50
Stallworthy, W. B.			16 50	16 50
Staples, W. E.	5 25	24 00		29 25
Stevenson, O. J.	17 13			17 13
Stillwell, E. C.	15 50	45 00		60 50
Stobie, W. G.			28 50	28 50
Stone, R. E.	13 00			13 00
Sunley, J. H.			30 00	30 00
Synge, J. L.	5 50			5 50
Tait, M. D. C.	10 50	18 00		28 50
Taylor, Griffith	5 50			5 50
Taylor, T. M. C.	10 25			10 25
Thomas, J. K.			27 00	27 00
Thomson, J. E.	5 75			5 75
Tomlinson, A. H.	7 00			7 00
Toomer, J. E.		21 00		21 00
Treadgold, W. M.	5 50	9 00		14 50

	Remuneration to Examiner	Presiding Officer	Attendance	Totals
Treloar, J. B.			6 00	6 00
Turner, R. M.	15 00	3 00		18 00
Turrall, W. T.			6 00	6 00
Underhill, F. H.	27 00			27 00
Urquhart, R. W. I.	9 65			9 65
Van Wyck, H. B.	21 50			21 50
Waddell, Miss M. E. G.	6 50	24 00		30 50
Waines, W. J.	13 00			13 00
Walker, Miss E. I.	2 75			2 75
Walker, E. M.	2 88	3 00		5 88
Walker, G. E.			3 00	3 00
Walton, W. M.			28 50	28 50
Wardell, A.		39 00		39 00
Warner, W. P.	80 80			80 80
Wasteneys, H.	27 75			27 75
Waters, E. T.	8 00			8 00
Watt, J. C.	23 25			23 25
Weatherburn, A. S.			6 00	6 00
Welsh, W. K.	50 00			50 00
Wetmore, F. E. W.	16 00			16 00
Wey, J. C.	6 75			6 75
White, J. H.		12 00		12 00
White, Rt. Rev. W. C.	1 75			1 75
Whiteside, W. H.	7 00			7 00
Wilhelm, J. O.		24 00		24 00
Willan, Healey	87 12			87 12
Williams, C. H. M.	34 00			34 00
Williams, D. C.			27 00	27 00
Wilson, G. E.	45 00			45 00
Winnett, F. V.	6 00			6 00
Wiren, R. C.		18 00		18 00
Woodcock, J. N.	4 13			4 13
Woodley, C. J.			6 00	6 00
Woodside, M. St. A.	11 75	42 00		53 75
Wookey, H. W.	45 00			45 00
Workman, Miss G. W.			25 50	25 50
Wright, W. J. T.	5 75			5 75
Wright, W. W.	5 00			5 00
Yarrill, E. H.			30 00	30 00
Young, C. R.	16 00			16 00
Zimmer, A. R.	22 00	27 00		49 00
	$6,508 45	$2,409 00	$1,476 00	$10,393 45

APPORTIONMENT

	Remuneration to Examiner	Presiding Officer	Attendance	Totals
Arts	$952 57	$1,152 00	$876 00	$2,980 57
Medicine	3,103 90	183 00	166 50	3.453 40
Applied Science	462 25	498 00	322 50	1,282 75
Dentistry	578 00	87 00	58 50	723 50
Household Science	5 50	12 00		17 50
Forestry	27 75	54 00		81 75
Music	277 99	54 00		331 99
School of Graduate Studies	46 74			46 74
School of Nursing	5 00	30 00	16 50	51 50
Social Science		39 00	3 00	42 00
University Extension	46 50			46 50
Pedagogy		24 00		24 00
Pharmacy	263 00	66 00	33 00	362 00
Agriculture	521 75	183 00		704 75
Veterinary Science	172 00	27 00		199 00
Law	45 50			45 50
	$6,508 45	$2.409 00	$1,476 00	$10.393 45

Remuneration to examiners (as detailed above)		$6,508 45
Presiding and attendance (as detailed above)		3,885 00
Honoraria for special services as a Revising Committee:		
Prof. W. J. McAndrew, $100; Prof. H. Bennett, $100; Prof. J. N. Woodcock, $100; Rev. B. F. Sullivan, $100		400 00
Examination supplies and sundries ($2,541.80):		
Engrossing diplomas, etc: S. Harrod, $293; G. B. Pritchard, $408	$701 00	
University Press, Pseudonym books, etc	1.756 15	
Accounts under $10 (2)	5 20	
Superintendent's Dept., labour, $78.18; material, $1.27	79 45	
		2,541 80
Printing examination papers and class lists:		
University Press		5,835 85
		$19,171 10
Less credit for sale of examination books, etc		245 43
		$18,925 67

VI. FACULTY OF ARTS

22. SALARIES

(1) Departments in University of Toronto ($590,302.80)

Dean's Office

S. Beatty, Dean (paid also $5.500 as Professor)	$1,000 00	
		$1,000 00

Mathematics

Professors:		
S. Beatty (see also above	$5.500 00	
I. R. Pounder (paid also $376 for Extension Work)	4.500 00	
Associate Professors:		
W. J. Webber	4.000 00	
N. E. Sheppard	3,800 00	
Assistant Professors:		
D. A. F. Robinson	3,400 00	
J. D. Burk	2.700 00	
G. deB. Robinson	2.700 00	
Richard Brauer (paid also $300 for Extension Work)	2.700 00	
H. S. M. Coxeter	2.700 00	
Lecturers (Sessional):		
Miss C. Krieger (paid also $28 for Extension Work)	2.100 00	
Miss M. E. G. Waddell (paid also $420 for Extension Work)	2.000 00	
D. B. DeLury	1.800 00	
Fellows (Sessional):		
DeLury Barber (paid also $46.80 for clerical assistance)	700 00	
R. H. Bruck	700 00	
S. A. Jennings	700 00	
J. M. Kingston	700 00	
J. Carson Mark	700 00	
W. J. Mayne, 1 month	87 50	
		$41.487 50

Applied Mathematics

J. L. Synge, Professor	$6.000 00	
A. F. C. Stevenson, Associate Professor	3.700 00	
B. A. Griffith, Lecturer (Sessional)	2.050 00	
Fellows (Sessional):		
W. D. Rannie	700 00	
P. R. Wallace	700 00	
		$13.150 00

Physics

Professors:		
E. F. Burton, also Director of Laboratory	$5.500 00	
J. Satterly	5.000 00	
L. Gilchrist	4.350 00	
Associate Professors:		
H. A. McTaggart	4.300 00	
D. S. Ainslie (paid also $535 for Extension Work)	3.200 00	
H. J. C. Ireton	3.200 00	

Assistant Professors:			
H. Grayson Smith		3,100 00	
J. O. Wilhelm (paid also $41.50 for Extension Work)		2,900 00	
C. Barnes		2,700 00	
M. F. Crawford		2,500 00	
A. Pitt (paid also $170 for Extension Work)		2,350 00	
Miss E. J. Allin, Lecturer (Sessional)		2,100 00	
Miss F. M. Quinlan, Lecturer and Demonstrator (Sessional)		1,600 00	
Special Lecturers (Sessional):			
W. H. Kohl		200 00	
A. B. McLay		200 00	
D. C. Archibald	without salary	....	
A. F. Chisholm		....	
Bernhard Haurwitz		....	
W. E. K. Middleton		....	
John Patterson		....	
Andrew Thomson		....	
A. A. Brant, Lindsley Fellow, Geophysics (paid $1,200 from Special Fund)		....	
Bernhard Haurwitz, Carnegie Fellow (paid $600 from Special Fund)		....	
Demonstrators (Sessional):			
Miss K. M. Crossley		1,600 00	
J. M. Anderson (paid also $300 for Extension Work)		1,200 00	
R. Richmond (paid also $75 for Extension Work)		1,200 00	
H. L. Welsh		1,200 00	
A. H. Woodcock (paid also $20 for Extension Work — resigned 31 December)		375 00	
S. Bateson (resigned 31 December)		300 00	
Assistant Demonstrators (Sessional):			
A. R. Clark		600 00	
H. M. Bryant		500 00	
O. A. Gilmore		500 00	
W. M. Gray (paid also $100 for laboratory assistance and $75 in Medical Research — Banting)		500 00	
J. Hillier (paid also $100 for laboratory assistance and $31 for Extension Work)		500 00	
D. W. R. McKinley		500 00	
F. A. O. Banks	Easter Term	350 00	
Miss E. Cohen		350 00	
E. H. Vestine. 4 mos.		250 00	
Class Assistants (Sessional — Easter Term):			
C. K. Cheng		125 00	
A. B. Rotenberg		100 00	
L. H. Turl (paid also $47.25 for laboratory assistance)		100 00	
A. W. Love		80 00	
P. J. Sandiford		80 00	
G. W. C. Tait		80 00	
Miss A. T. Reed, Secretary and Class Assistant		2,000 00	
Miss B. M. Savage, Clerical Assistant (resigned)		1,500 00	
B. Clark, Mechanician		2,100 00	
Assistant Mechanicians:			
J. Anderson		1,900 00	
J. Ward		1,900 00	
G. T. Woodward		1,900 00	
F. M. Shepherd (paid also $25 in Medical Research — Banting)		1,500 00	
Albert Owen (paid also $37 for Extension Work)		960 00	
R. H. Chappell, Glass-blower		2,700 00	
P. Blackman, Laboratory and Lecture Assistant		1,600 00	
			$71,750 00

Astronomy

R. K. Young, Professor, also Director of David Dunlap Observatory	$4,500 00
F. S. Hogg, Assistant Professor (paid also $210 for Extension Work)	2,850 00
Lecturers (Sessional):	
P. M. Millman	2,050 00
J. F. Heard (paid also $210 for Extension Work)	1,800 00
Computers:	
Miss R. J. Northcott	1,150 00
Miss F. S. Patterson (paid also $150 for Extension Work)	1,100 00
D. A. MacRae, Assistant)	1,000 00

Mrs. Helen S. Hogg, Research Assistant, 8 mos.	300 00	
Miss E. M. Fuller, Secretary-Librarian	1.150 00	
G. F. Longworth, Night Assistant and Machinist	1.300 00	
		$17.200 00

Geology

Professors:		
E. S. Moore (paid also $100 for Summer Field Work)	$5.500 00	
G. B. Langford, Mining Geology	4.800 00	
A. MacLean	4.200 00	
Assistant Professors:		
L. S. Russell (paid also $160 for Extension Work)	2.500 00	
Dr. Madeleine A. Fritz (part time — paid also in Royal Ontario Museum)	850 00	
J. Slatterly, Lecturer (Sessional — paid also $200 for Extension Work)	1.800 00	
V. J. Okulitch, Instructor (Sessional — paid also $50 for Summer Field Work and $200 for Extension Work)	1,500 00	
Class Assistants (Sessional):		
M. W. Bartley	250 00	
J. W. Britton	250 00	
W. P. Corking	250 00	
G. P. Crombie	250 00	
M. C. Gardiner	250 00	
V. K. Prest	250 00	
R. M. Sternberg	250 00	
D. Monteith, Laboratory Attendant, 9 mos.	675 00	
		$23.575 00

Mineralogy

Professors:		
A. L. Parsons	$4.700 00	
J. Ellis Thomson (paid also $100 for Extension Work)	4.100 00	
M. A. Peacock, Associate Professor	4.000 00	
V. B. Meen, Lecturer (Sessional — paid also in Royal Ontario Museum and $50 for Extension Work)	1.600 00	
Assistants (part time — Sessional):		
L. G. Berry (paid also $100 for Extension Work)	400 00	
A. T. Prince	400 00	
Wm. Wightman, Laboratory Attendant, 8 mos. (paid also $40 for Extension Work)	800 00	
		$16.000 00

Chemistry

Professors:	
F. B. Kenrick	$5.500 00
Hermann Fischer, Research — Organic Chemistry (paid $5.000 from Special Fund)	....
J. T. Burt-Gerrans, Electro-Chemistry	4.500 00
L. J. Rogers	4.500 00
Associate Professors:	
J. B. Ferguson	4.400 00
W. S. Funnell	4.200 00
W. H. Martin (on leave of absence for Michaelmas Term)	4.200 00
A. R. Gordon	4.200 00
F. R. Lorriman	3.600 00
F. E. Beamish, Assistant Professor	2.900 00
Special Lecturers (Sessional):	
G. F. Wright	3.000 00
J. J. Rae (paid also $200 in Medical Research — Banting)	2.100 00
Lecturers (Sessional):	
Dr. Helen Stantial, Micro-Analysis	2.600 00
F. E. W. Wetmore	2.100 00
S. O. Thomson, temporary Assistant to Professor Beamish	300 00
Assistants (Sessional):	
Miss E. V. Eastcott	1.800 00
R. G. Romans	1.295 00
H. J. Bernstein	799 00
L. F. King, 3 weeks (vice H. J. Bernstein on sick leave)	70 00
M. Cohen	799 00
W. H. Brown	725 00
J. Seath	725 00
L. D. Finlayson	724 00

R. N. Meals	724 00	
Miss C. J. Sanderson (paid also $66.67 from Special Fund)	724 00	
S. Shankman	724 00	
G. A. Stewart	724 00	
E. A. Hollingshead	650 00	
F. L. McKim	650 00	
J. H. Michell	650 00	
W. M. Orchard	650 00	
W. A. Patterson	650 00	
G. W. Rogers	650 00	
Miss J. C. Romeyn	650 00	
G. E. Willey	650 00	
C. Marchant (paid also $466.66 from Special Fund and $100 for Extension Work)	324 00	
M. Wayman (paid also $466.67 from Special Fund)	324 00	
W. G. Hines (paid also as Demonstrator)	75 00	
D. J. LeRoy (paid also as Demonstrator)	75 00	
Demonstrators, Electro-Chemistry (Sessional):		
W. A. James	824 00	
D. J. LeRoy } see also above	824 00	
W. G. Hines }	750 00	
Laboratory Assistants:		
R. Fortescue (with rooms, heat and light valued @ $420 as caretaker of building)	1.200 00	
W. Banton (paid also $20 for Extension Work) $1,450; Lecture Assistant, $200	1.650 00	
Laboratory Attendants @ $10 to $14 per week:		
H. Renwick, 52 weeks, 1 day	730 34	
H. Davis, 40 weeks, 4 days	488 00	
A. Van Winckel, 40 weeks, 4 days	406 66	
P. Rowley, 8 weeks, 4 days	104 73	
F. H. Twigg, 146 hours @ 42c to 44c per hour	65 39	
		$70.974 12

Biology

Professors:	
E. M. Walker, Invertebrate Zoology	$5,500 00
W. H. Piersol, Histology and Embryology, @ $5,100 of which half charged to Anatomy	2,550 00
A. G. Huntsman, Marine Biology (without salary)	....
Associate Professors:	
A. F. Coventry, Vertebrate Embryology	3,950 00
J. R. Dymond, Systematic Zoology (paid also $10 for Extension Work)	4,100 00
W. H. T. Baillie, Mammalian Anatomy	3,950 00
J. W. MacArthur, Genetics	3.950 00
E. H. Craigie, Comparative Anatomy and Neurology	3.600 00
Assistant Professors:	
W. J. K. Harkness, Limnobiology	3.550 00
Dr. Norma H. C. Ford, Human Biology	3,000 00
K. C. Fisher, Experimental Biology	2,800 00
F. P. Ide, Lecturer	2,300 00
Demonstrators (Sessional):	
C. W. J. Armstrong (paid also $166.66 in Medicine)	900 00
Miss V. Engelbert	900 00
F. E. J. Fry (paid also $1,100 in Special Research)	900 00
R. R. Langford (paid also $1,100 in Special Research)	900 00
Assistants (Sessional):	
P. Elson	550 00
A. A. Blair	450 00
H. M. Rogers	450 00
Miss R. D. C. Martin	400 00
G. E. Bucher	300 00
K. Graham	300 00
Miss G. Workman	300 00
D. A. McLulich	300 00
Dr. Kathleen M. Bartley	200 00
Miss A. M. Ironside	160 00
S. H. Chambers	150 00
Miss M. M. Macdonald	100 00
Miss L. E. M. Roddy	90 00

J. M. Speirs	50 00	
J. Spizizen	40 00	
W. M. Sprules	40 00	
W. R. Martin (paid also $200 in Special Research)	30 00	
V. E. F. Solman (paid also $200 in Special Research)	30 00	
Technical Assistants:		
A. Quantrill	1.200 00	
S. Clare	900 00	
Thos. Stovell	900 00	
Miss A. H. Bell, 10 mos. (paid also in Royal Ontario Museum)	750 00	
Miss M. Sewell, 9 mos. (half time)	360 00	
E. C. Cross, Secretary (paid also in Royal Ontario Museum)	1,750 00	
W. J. LeRay, Curator of Vivarium	1.700 00	
D. G. LeRay, Assistant in Vivarium (paid also $50 in Psychology)	520 00	
A. Wilson, Chief Laboratory Assistant	1.000 00	
Wm. Smith, Laboratory Attendant and Stores Assistant	600 00	
A. Prince, Laboratory Assistant, 33-1/3 weeks @ $9	300 00	
Secretarial Assistants:		
Mrs. Helen Jackson (paid also $9.50 in Geology)	1,150 00	
Miss E. Caesar, 9 mos.	675 00	
Miss P. Foreman, Stenographer and Librarian	1.000 00	
		$59.595 00

Botany

Professors:	
R. B. Thomson, Plant Morphology	$5,500 00
H. S. Jackson, Mycology	5.200 00
Associate Professors:	
D. L. Bailey, Plant Pathology (2/3rds time)	3.500 00
G. H. Duff, Plant Physiology	4.100 00
H. B. Sifton, Plant Morphology and OEcology	4,100 00
Assistant Professors:	
Dr. J. Gertrude Wright	3.000 00
T. M. C. Taylor (on leave of absence, Easter Term — paid also $440 for Extension Work)	2.800 00
W. R. Haddow, Special Lecturer (Sessional — without salary)	....
A. J. V. Lehmann, Senior Demonstrator (paid also $140 in Special Research)	1.600 00
Class Assistants (Sessional):	
Miss D. F. Forward (paid also $80 in Special Research)	900 00
D. F. Putnam (paid also $175 in Special Research and $260 for Extension Work)	650 00
M. W. Bannan (paid also $60 in Special Research)	600 00
D. H. Hamly (paid also $450 in Applied Physics and $265 in Special Research)	575 00
D. C. McPherson (paid also $150 in Special Research)	550 00
Miss A. B. Brodie (paid also $60 in Special Research)	500 00
P. G. Newell	500 00
K. Clendenning	450 00
L. T. Richardson	450 00
S. A. Simmons (paid also $150 in Special Research)	450 00
A. J. Skolko (paid also $150 in Special Research)	450 00
W. R. Watson (paid also $120 in Special Research)	450 00
C. N. Haldenby (paid also $150 in Special Research)	425 00
G. W. Hope	425 00
Miss G. S. Taylor (paid also $175 as Clerical Assistant, Botanic Garden, and $150 in Special Research)	425 00
Technical Assistants:	
Miss M. B. Givens	1.800 00
Miss C. B. Ross	1.400 00
R. F. Cain	1.650 00
Mrs. Marion A. Lent, 2 mos.	150 00
A. Simpson, Horticulturist (with living quarters valued @ $360)	2.200 00
L. Van Cleemput, Gardener	1,450 00
J. Van Beek, Assistant Gardener	1,400 00
Clerical Assistants:	
Miss L. Alward	1.400 00
Miss Hilda Lent (resigned 18 June)	1.150 00
Dr. Kathleen L. Hull, Librarian	1.200 00
P. Krotkov, Herbarium Assistant	1.800 00

Laboratory Attendants:		
R. Lynn	1,150 00	
S. G. Smith	1,000 00	
		$55.350 00

History

Professors:		
Chester Martin (paid also $3 from University Press)	$5,500 00	
R. Flenley (paid also $30 from University Press)	4.700 00	
F. H. Underhill (paid also $10 from University Press)	4,700 00	
G. W. Brown (paid also $342 for Extension Work and $375 from University Press)	4,500 00	
G. deT. Glazebrook, Associate Professor (paid also $262.75 for Extension Work)	3.600 00	
Assistant Professors:		
D. G. Creighton (paid also $75 for Extension Work and $29 from University Press)	2.700 00	
Edgar McInnis (paid also $820 for Extension Work and $3.50 from University Press)	2.600 00	
D. J. McDougall (paid also $360 for Extension Work)	2,600 00	
Lecturers (Sessional):		
R. M. Saunders (paid also $378 for Extension Work and $1.50 from University Press)	2,350 00	
R. A. Preston (paid also $285 for Extension Work)	2,000 00	
Miss M. MacLaren, Reader (Sessional)	250 00	
R. G. Riddell, Tutorial Assistant (Sessional — without salary)	....	
		$35.500 00

Anthropology

T. F. McIlwraith, Professor (paid also $12 from University Press)	$4,500 00	
C. W. M. Hart, Assistant Professor, also Supervisor of Studies for Course in Sociology (paid also $200 for Extension Work)	2.900 00	
P. Nash, Lecturer (Sessional)	2.000 00	
J. Franz, Instructor, Sociology (Sessional)	1,000 00	
		$10,400 00

Archaeology

C. T. Currelly, Professor (part time — paid also in Royal Ontario Museum)	$4.500 00	
Rt. Rev. W. C. White, Associate Professor, Chinese Archaeology (paid also in Royal Ontario Museum)	2,500 00	
Homer A. Thompson, Assistant Professor, Classical Archaeology (half time)	1.700 00	
Rev. Jas. M. Menzies, Research Assistant, Chinese Archaeology (Sessional — without salary)	....	
		$8.700 00

Fine Art

John Alford, Professor (paid $5,000 from Special Fund)	....	
Lecturers:		
Peter Brieger (paid $2.400 from Special Fund)	....	
F. S. Haines, Lecturer (part time — Sessional; without salary)	....	
Peter Haworth, Instructor (Sessional)	600 00	
		$600 00

Music

Instructors in musical subjects in Honour Courses:		
Healey Willan (paid also $250 in Faculty of Music)	$420 00	
Leo Smith (paid also $250 in Faculty of Music)	$420 00	
Toronto Conservatory of Music	160 00	
		$1.000 00

Geography

Griffith Taylor, Professor (paid also $2.500 in Ontario College of Education and $300 for Extension Work)	$4.000 00	
Demonstrators (Sessional):		
A. H. Clark (paid also $120 for Extension Work)	1.200 00	
Miss E. K. M. Sims (paid also $386 for Extension Work and $1 from the University Press)	1.200 00	
Miss M. Brookstone (paid also $240 for Extension Work)	1.000 00	
Student Demonstrators (Sessional):		
F. Auburn	150 00	
N. B. McElheran	150 00	
		$7,700 00

Political Economy

Professors:		
H. A. Innis (paid also $10 from University Press)	$4.500 00	
W. T. Jackman, Transportation	4.900 00	
Associate Professors:		
V. W. Bladen, also Supervisor of Studies in Political Economy (paid also $75 for Extension Work and $400 from University Press)	4,100 00	
H. R. Kemp	4,100 00	
A. Brady (on leave of absence, Easter Term — paid also $75 from University Press)	3,800 00	
R. M. Dawson (paid also $10 from University Press)	3,600 00	
Assistant Professors:		
Lorne T. Morgan (paid also $200 for Extension Work)	3.700 00	
J. F. Parkinson (paid also $420 for Extension Work)	2.600 00	
Miss I. M. Biss (paid also $8 from University Press — resigned 30 June)	2.600 00	
Donald C. McGregor (on leave of absence from 1 February to 30 June without salary)	1.516 67	
A. F. W. Plumptre (paid also $225 for Extension Work and $19 from University Press)	2.600 00	
Lecturers (Sessional):		
V. F. Coe (paid also $247.50 for Extension Work and $32 from University Press)	2,400 00	
C. B. Macpherson (paid also $50 for Extension Work and $13 from University Press)	2,000 00	
F. J. Westcott, Special Lecturer (Sessional — paid also $662 for Extension Work and $10 from University Press)	1.800 00	
J. G. Perold, Instructor (Sessional — paid also $170 for Extension Work)	1,500 00	
W. T. Easterbrook, Assistant (Sessional)	1,000 00	
Junior Assistants (Sessional):		
R. H. Fleming	500 00	
Miss I. Wilson (resigned 31 December)	187 50	
I. McDonald	156 25	
W. J. McPherson	156 25	
Special Lecturers (including expenses):		
A. P. Usher	57 30	
J. M. Clark	52 45	
R. M. MacIver	50 00	
Jacob Viner	48 36	
Kenneth Boulding	22 35	
W. A. Mackintosh	15 35	
H. A. Logan	8 70	
Accounting:		
W. S. Ferguson, Professor (part time — paid also $20 for Extension Work)	2.550 00	
C. A. Ashley, Associate Professor, $3,250; Supervisor of Studies in Commerce and Finance, $600	3.850 00	
F. R. Crocombe, Assistant Professor (paid also $50 for Extension Work)	3.450 00	
		$57.821 18

Law

Professors:		
W. P. M. Kennedy, Constitutional Law (paid also $275 from University Press)	$5.700 00	
N. A. M. MacKenzie, Public and Private International Law	4.400 00	
F. C. Auld, Roman Law and Jurisprudence	4.200 00	
Jacob Finkelman, Assistant Professor, Administrative and Industrial Law (paid also $210 for Extension Work)	2.500 00	
Moffat Hancock, Lecturer (Sessional)	1.600 00	
K. G. Gray, Honorary Lecturer (Sessional — without salary)	..	
		$18.400 00

Philosophy

Professors:		
G. S. Brett, $6.000, of which $1.000 paid in Ethics (paid also $1.000 as Dean of Graduate Studies; $30 in Ontario College of Education, and $7.50 from University Press)	$5.000 00	
F. H. Anderson	4.600 00	
Associate Professors:		
H. R. MacCallum (paid also $30 from University Press)	4.200 00	
E. W. Macdonald (paid also $400 for Extension Work)	3.300 00	

W. Jarvis McCurdy, Assistant Professor (paid also $620 for Extension Work)	2,900 00	
J. K. Thomas, Assistant (Sessional)	1.500 00	
		$21.500 00

Psychology

Professors:		
E. A. Bott, also Director of Laboratory	$5,000 00	
W. E. Blatz (part time — paid also $2,500 from St. George's School and $50 for Extension Work)	2,500 00	
Associate Professors:		
S. N. F. Chant (paid also $400 for Extension Work)	3,900 00	
Wm. Line (paid also $300 for Extension Work)	3.600 00	
Assistant Professors:		
J. D. Ketchum (paid also $10 for Extension Work)	2.700 00	
G. P. Cosgrave (paid also $422 for Extension Work)	2,600 00	
K. S. Bernhardt (paid also $450 from St. George's School; $200 for Instruction to Optometry students, and $520 for Extension Work)	2.350 00	
C. R. Myers (paid also $720 for Extension Work)	2,050 00	
K. H. Rogers, Special Lecturer (Sessional — paid also $100 for Extension Work)	300 00	
Instructors (Sessional):		
H. C. H. Miller (paid also $200 for Extension Work)	600 00	
G. W. Anderson (paid also $150 in Psychiatry)	100 00	
Miss D. D. Hearn, Class Assistant (paid also $550 as Laboratory Attendant)	600 00	
Class Assistants (Sessional):		
Miss M. Northway (paid also $200 for Extension Work)	400 00	
Miss M. D. Salter (paid also $100 for Extension Work)	400 00	
G. H. Turner (paid also $350 for Extension Work)	400 00	
D. C. Williams (paid also $400 for Extension Work)	400 00	
Miss N. Loeb	300 00	
Miss D. Millichamp (paid also $1,300 from St. George's School)	300 00	
Miss A. M. Benson	200 00	
J. D. M. Griffin	200 00	
J. H. Sunley	200 00	
Miss N. Bailey	100 00	
Readers:		
E. L. Jacobs	200 00	
Miss M. Mason	200 00	
Instruction for Optometry students:		
K. S. Bernhardt, Special Lecturer (see above)	200 00	
Miss D. F. Rintoul, Class Assistant	200 00	
G. C. Cooper, Technician	2.300 00	
	$32.300 00	
Less paid by School of Nursing	300 00	
		$32,000 00

Italian and Spanish

Professors:		
M. A. Buchanan	$6,000 00	
J. E. Shaw	6.000 00	
Emilio Goggio (paid also $200 for Extension Work)	4.400 00	
Associate Professors:		
G. C. Patterson	3.600 00	
Juan Cano (paid also $200 for Extension Work)	3,600 00	
Instructors (Sessional):		
Miss F. M. Haygarth	1.500 00	
J. H. Parker	1,500 00	
		$26.600 00

(2) Departments in University College ($160,550)

Classics

Gilbert Norwood, Professor, also Director of Classical Studies (paid also $10 from University Press)	$6,250 00	
(a) Greek:		
E. T. Owen, Professor	4.700 00	
Associate Professors:		
D. E. Hamilton	4.200 00	
M. D. C. Tait (paid also $470 for Extension Work)	3.600 00	

(b) Latin:		
Professors:		
G. Oswald Smith (paid also $150 for Extension Work)	5.000 00	
E. A. Dale (on leave of absence, Easter Term)	4.500 00	
Louis A. MacKay, Assistant Professor (paid also $430 for Extension Work)	3.100 00	
(c) Greek and Roman History:		
C. N. Cochrane, Professor (also Dean of Residence with free house, heat and light valued @ $300)	4,500 00	
Miss Mary C. Needler, Assistant Professor	2,700 00	
B. R. English, Instructor (Sessional — paid also $150 for Extension Work)	1,500 00	
		$40.050 00

English

Professors:		
M. W. Wallace (paid also $1,500 as Principal of University College)	$6,000 00	
R. S. Knox (paid also $15 from University Press)	4.700 00	
J. F. Macdonald (paid also $150 in Ontario College of Education and $580 for Extension Work)	4.500 00	
Associate Professors:		
W. H. Clawson (paid also $560 for Extension Work)	3.900 00	
A. S. P. Woodhouse (paid also $320 from University Press)	3.700 00	
E. K. Brown (paid also $300 for Extension Work and $300 from University Press)	3,700 00	
Assistant Professors:		
N. J. Endicott (paid also $452 for Extension Work)	2.800 00	
J. R. MacGillivray (paid also $404 for Extension Work)	2,700 00	
A. E. Birney, Lecturer (Sessional — paid also $300 for Extension Work and $20 from University Press)	2,000 00	
D. V. LePan, Reader	750 00	
		$34,750 00

French

Professors:		
F. C. A. Jeanneret	$5.500 00	
J. S. Will	5.000 00	
St. E. de Champ (paid also $200 for Extension Work)	4.500 00	
Associate Professors:		
W. J. McAndrew (paid also $800 as Registrar of University College)	3.700 00	
H. L. Humphreys (paid also $420 for Extension Work)	3.600 00	
Assistant Professors:		
J. G. Andison (paid also $426 for Extension Work)	3.300 00	
R. D. C. Finch (on leave of absence, Easter Term	3.100 00	
C. D. Rouillard	3.000 00	
Lecturers (Sessional):		
Miss A. C. Cole (paid also $308 for Extension Work)	2.350 00	
Jean A. Houpert (paid also $300 for Extension Work)	2.000 00	
G. L. Assie (paid also $320 for Extension Work)	1,900 00	
Miss I. Balthazard	1.800 00	
Miss M. D. MacDonald (paid also $200 for Extension Work)	1.800 00	
		$41.550 00

German

Barker Fairley, Professor	$6.000 00	
Thure Hedman, Associate Professor	4.000 00	
Assistant Professors:		
G. E. Holt	3.450 00	
H. Boeschenstein (paid also $500 for Extension Work)	2.700 00	
Victor Lange, Lecturer (paid also $30 in Ontario College of Education and $200 for Extension Work — resigned 30 June)	2.000 00	
		$18.150 00

Semitics

Professors:		
W. R. Taylor	$5,500 00	
T. J. Meek (paid also $30 from University Press)	5.350 00	
F. V. Winnett, Assistant Professor	2.800 00	
W. S. McCullough, Lecturer (Sessional)	2.400 00	
M. T. Newby, Fellow (Sessional)	500 00	
		$16.550 00

Ethics

G. S. Brett, Professor (see also Philosophy)	$1,000 00	
		$1.000 00

University College General

M. W. Wallace, Principal (see also English)	$1,500 00	
Miss Marion B. Ferguson, Dean of Women (with living valued @ $400)	2.500 00	
W. J. McAndrew, Registrar (see also French)	800 00	
Miss R. Gregory, Registrar's Assistant	1,000 00	
Miss C. Tocque, Stenographer in University College	1.400 00	
Miss M. Blackburn, Secretary in Registrar's Office	1.300 00	
		$8.500 00
		$750.852 80

23. MATHEMATICS

Class room supplies ($100.32):		
American Mathematical Society, dues	$25 28	
Photographic Service, slides	6 55	
University Extension, paper and stencils	40 91	
University Press, printing and stationery	27 58	
Clerical assistance ($83.40):		
de Lury Barber, 78 hrs. @ 60c (see also salaries)	46 80	
University Extension, making stencils	36 60	
		$183 72

24. APPLIED MATHEMATICS

Class room supplies ($278.01):		
Hirschwaldsche Buchhandlung, text books	$31 74	
Murdoch Stationery, paper	27 00	
Office Specialty Mfg. Co., cabinet and guides	38 10	
Postage	15 00	
Roneo Co. of Canada, stencils, ink and paper	46 35	
Waverly Press, reprints	13 76	
University Press, printing and stationery	53 03	
Accounts under $10 (11)	51 62	
Superintendent's Dept., freight, 36c; labour, $1.05	1 41	
Clerical assistance:		
Donald W. Robertson, 41-2/3 weeks @ $12	500 00	
		$778 01

25. PHYSICS

Laboratory and workshop supplies ($5,694.31):		
Geo. Adams, screws, nuts, etc.	$29 35	
Aikenhead Hardware Ltd., hardware	117 95	
Allen Mfg. Co., laundry	37 22	
American Hard Rubber Co., rubber	13 94	
Anaconda American Brass, Ltd., rod	196 58	
Baird & Tatlock, terminals, etc.	50 75	
Bakelite Corporation, bakelite	10 15	
Baker Platinum Co., lead and tin wire	49 75	
Bausch & Lomb Optical Co., prisms	11 27	
Charles Besby & Co., tubing	16 17	
W. E. Booth, lantern and photo plates	105 99	
Brown Engineering Corporation, grinding babbits	15 00	
Cambosco Scientific Co., polaroid discs	35 22	
Cambridge Instruments Co., repairing thermometers	56 58	
Canada Metal Co., castings and tubing	104 62	
Canada Wire & Cable Co., wire	26 09	
Canadian General Electric Co., lamps and resistors	133 97	
Canadian Kodak Co., chemicals and plates	23 79	
Canadian Laboratory Supplies, glassware and chemicals	81 52	
Canadian Liquid Air Co., testing cylinders	13 88	
Canadian National Carbon Co., carbons and batteries	50 42	
C. P. R. Telegraphs	14 33	
Walter A. Carveth, quartz wedge	19 00	
Central Scientific Co., glassware, tubing, etc.	442 12	
Corning Glass Works, tubing	19 69	
Crane Ltd., safety valve	23 89	
F. C. Dannat, repairing cell	13 54	
Diamond State Fibre Co., fibre	36 68	
Ditto of Canada, Ltd., carbon sheets	32 21	
Dominion Oxygen Co., gas	379 17	

Driver Harris & Co., wire	10 14
Eastman Kodak Stores, plates and chemicals	12 19
Eastman Photographic Stores, plates and chemicals	84 57
T. Eaton Co., baskets, stools and chemicals	13 34
Exide Batteries, batteries	104 72
Garlock Packing Co., rings	11 03
General Electric X-Ray Corporation, rod	10 23
General Radio Co., binding posts	13 45
Gevaert Co., photo paper	44 20
Griffin & Tatlock, glassware	167 20
Gutta Percha & Rubber Co., tubing and sleeves	22 77
Hammer Laboratories, lamp	24 00
Hardwicks, Hindle Inc., electrical units	18 30
Adam Hilger Ltd., chemicals, etc	192 33
Imperial Oil Ltd., oil	30 68
International Resistance Co., resistors	28 89
Johnson, Matthey & Co., contacts	16 20
Kimball Glass Co., tubing	82 03
P. J. Kipp & Zonen, tube	18 74
Lake Simcoe Ice & Fuel Ltd., ice	40 97
J. R. Langstaffe, sockets	16 73
McBain Foundry, castings	45 97
W. R. McKee, electrical repairs	31 50
D. W. R. McKinley, quartz unit	25 00
Geo. A. Matthews Co., rewinding armature	12 50
Matthews, McCutcheon & Co., lamps, etc	501 28
Nichols Chemical Co., acids	37 61
Northern Electric Co., tubes	18 90
Peckover's Ltd., rods	10 77
Postage	43 50
Pratt & Lambert, paint	18 98
Pratt & Whitney, drills, reamers, etc	50 72
W. G. Pye & Co., wire	14 83
Radio Trade Supply Co., voltmeters and ammeters	24 65
Radio Valac Co., transformers and condensers	75 00
Roneo Co., stencils, paper and ink	32 69
Robbins & Townsend, typewriter inspection	11 40
K. Slemay, filaments	10 35
Stupakoff Laboratories, filaments	14 41
Toronto Hydro-Electric System, current	179 10
Viedor-Root of Canada, counters	14 54
Walker's Metal Products, wire	36 92
Westinghouse Electric Mfg. Co., tubes, etc	31 20
Wholesale Radio Co., radio parts	122 29
A. R. Williams Machinery Co., tractor, etc	26 50
J. C. Williams, film	16 50
University Press, printing and stationery	257 80
Accounts under $10 (43)	206 04
Sundry disbursements by department:	
Seminar teas, $24.06; hardware, $19.43; sundries, $20.57	64 06
Superintendent's Dept., freight, $132.27; labour, $153.73; material, $329.75	635 75
Apparatus ($3,503.73):	
Bliley Electric Co., crystals	28 68
Canadian General Electric Co., lamps	11 85
Canadian Marconi Co., wave meter	69 50
Walter A. Carveth & Co., micro enlarger	325 00
Central Scientific Co., pumps, heaters, galvanometers, etc	308 99
Clough-Brengle Co., voltmeters	44 83
Chas. W. Cook & Sons, electroscope	95 03
G. Cussons Ltd., modulus apparatus	22 49
W. Edwards & Co., water pumps	104 92
Fish-Schurman Corporation, glass filters	5 94
General Radio Co., condenser	12 08
Griffin & Tatlock, weights, microscope and thermometers	103 21
Adam Hilger Ltd., tubes, condensers, illuminators, etc	1,259 50
Matthews, McCutcheon & Co., meters, fuses and lanterns	141 45
Seeman Laboratory, spectrograph, $804.35 (one half paid by Radiology)	402 17
Underwood-Elliott-Fisher Ltd., typewriter, $133.65; less allowance on old machine, $7.50	126 15

Weston Electrical Instrument Co., meter relay, ammeters, etc.		57 94	
Zenith Electric Co., resistances		74 35	
Superintendent's Dept., labour, $234.15; material, $75.50		309 65	
Experimental tables, cases, books, charts, fittings, etc. ($736.57):			
Engineering. subscription		14 75	
H. M. Stationery Office		32 16	
Macmillan & Co., subscription		14 45	
K. C. Mann, graphs and diagrams		16 00	
National Research Council, reprints		21 90	
University Press, printing and stationery		83 17	
Accounts under $10 (10)		49 43	
Superintendent's Dept., labour. $262.55; material, $242.16		504 71	
Laboratory and workshop assistance ($1,497.25):			
J. Love. 41 weeks, 3 days		372 00	
R. Hipgrave, 37 weeks		333 00	
C. Beaumont, 33 weeks, 4 days		303 00	
J. Hillier, 4 weeks (see also salaries)		100 00	
W. Gray, 4 weeks (see also salaries)		100 00	
K. C. Mann. 6 weeks		96 00	
A. Preuls, 6 weeks		96 00	
S. Collins. 4½ weeks		50 00	
L. H. Turl, 63 hours (see also salaries)		47 25	
Research apparatus ($2,209.35):			
Askania Werke Aktungessllschaft, balance		935 71	
Canadian General Electric Co., motor generator set		1.240 00	
Superintendent's Dept.. freight		33 64	
		$13.641 21	
Less charged to Sir John McLennan Fund	$2.209 35		
Credits: Laboratory deposits, $729.90; sale of material. $102.60	832 50		
		3.041 85	
			$10,599 36

26. ASTRONOMY

At University:	
Supplies ($279.46):	
Canadian General Electric Co.. lamps and transformer	$16 63
University Press. printing and stationery	29 80
Accounts under $10 (7)	33 92
Sundry disbursements by department:	
Express and postage. $8.93; hardware and sundries. $16.07	25 00
Superintendent's Dept., freight. $19.63; material. $154.48	174 11
At Observatory:	
Supplies and apparatus ($1,984.77):	
Aikenhead Hardware Ltd., hardware	10 33
Art Metropole. monocular paper	70 91
Birks., Ellis, Ryrie Ltd., watches	30 00
W. E. Booth Co., plates and films	104 98
F. Y. W. Braithwaite, hardware	33 12
British Liquid & Meter Co.. meter	17 12
Canadian General Electric Co.. motors, wire, etc	53 97
Canadian Westinghouse Co., refrigerator	131 80
Chicago Gear Works, gears	12 02
Davies Dry Goods & Millinery, material	12 89
Dominion Oxygen Co., gas tank	15 00
Eastman Photographic Stores. plates, paper and filter glass	25 98
Gaetner Scientific Corporation, measuring engine	600 81
G. M. Laboratories Inc., galvanometer relay	52 97
Sir Howard Grubb-Parsons. mirrors aluminizied	101 32
J. F. Hartz Co., silver nitrate	19 95
P. J. Kipp & Zonen. galvanometer repairs	22 55
Leeds & Northrup Co.. galvanometers	15 94
E. P. Lena & Son. steel ring	10 63
McBain Foundry. plate and castings	37 69
Office Specialty Mfg. Co., filing cabinet	104 00
H. W. Petrie, grinders	118 50
Polaroid Corporation, disc	13 10
Postage	13 00
Shallcross Mfg. Co., shunt	22 13
Sheppard & Gill Lumber Co.. lumber.	85 93
University Press, printing and stationery	46 92

Accounts under $10 (10)	50 85	
Superintendent's Dept., freight, $24.12; telephone, $4.77; labour, $10.50; material, $110.97	150 36	
Library, including binding and mending ($490.06):		
F. A. Brockhaus, books	20 88	
Walter de Gruyter & Co., books	10 68	
Harvard University, books	36 23	
Hirschwaldsche Buchhandlung, books	23 23	
Macmillan Co., subscriptions	20 76	
Royal Astronomical Society, reprints	22 00	
University Press, books and binding	307 64	
Accounts under $10 (11)	48 64	
Travelling allowances ($300):		
J. F. Heard	80 00	
F. S. Hogg	80 00	
P. M. Millman	80 00	
Miss F. S. Patterson	60 00	
Attendants and incidentals ($88.79):		
T. Mackenzie, caretaker's overtime services	61 25	
Superintendent's Dept., labour, $25.73; material, $1.81	27 54	
	$3,143 08	
Less door receipts, $147.50; allowance for apparatus damaged in transit, $34.08	181 58	
		$2,961 50

27. GEOLOGY

Maintenance and equipment ($738.53):		
Bausch & Lomb Optical Co., cover glasses	$11 76	
Geological Survey, U.S., maps	20 30	
Grand & Toy, chairs, table, desk and trays	123 10	
Hamilton Beach Co., cover glasses	25 18	
Thos. Pocklington Co., compass and cases	33 00	
Postage	16 00	
Spence Air Photos, lantern slides	30 19	
Taylor Instrument Co., hydrometers	16 19	
University Press, printing and stationery	186 12	
Accounts under $10 (14)	74 34	
Superintendent's Dept., freight, $18.22; labour, $86.82; material, $97.31	202 35	
Summer Field work, travelling expenses, etc. ($579.03):		
American Paulen System, altimeter	153 20	
Prof. A. P. Coleman, travelling expenses	114 19	
Instruments Ltd., protractors and tracing papers	14 40	
Prof. E. S. Moore, honorarium, $100; expenses, $8.69	108 69	
V. J. Okulitch, honorarium, $50; expenses, $4.58	54 58	
Thos. Pocklington, compass repairs	34 50	
Provincial Treasurer, car license	2 00	
Salems Garage, car repairs	26 94	
University Press, printing and stationery	62 86	
Superintendent's Dept., material	7 67	
Less credit from sale of material	52 00	
		$1,265 56

28. MINERALOGY

Maintenance and equipment ($1,168.49):		
Art Metropole, drawing boards, etc.	$24 80	
Canadian Laboratory Supplies, glassware and weights, etc.	22 40	
Canadian Liquid Air Co., gas and valve	12 31	
Walter A. Carveth, microscope	46 00	
Central Scientific Co., glassware and chemicals	125 72	
French Ivory Products, sheeting	32 40	
Grand & Toy, desks, chairs, etc.	88 25	
Johnson, Matthey & Co., crucibles	86 35	
John H. Klein & Co., charcoal blocks	98 80	
Office Specialty Mfg. Co., file	34 25	
Photographic Service, prints and slides	23 18	
Spencer Lens Co., illuminator	14 17	
Ward's Natural Science Establishment, specimens	92 66	

Clerical assistance:		
Miss H. Dalton, 66½ hrs. @ 50c	33 25	
Miss M. Rutledge, 4½ days	15 75	
University Press, printing and stationery	169 60	
Accounts under $10 (14)	73 06	
Sundry disbursements by department	17 70	
Superintendent's Dept., freight, $42.44; labour, $76.46; material, $38.94	157 84	
Special X-Ray equipment ($1,287.96):		
American Instrument Co., X-Ray tubes	241 22	
C. L. Berger & Sons, goniometer with attachment	695 93	
Central Scientific Co., pump and glassware	98 71	
A. S. Hunt, coils	25 00	
G. T. Woodward, comera, powder, etc	106 00	
Accounts under $10 (2)	5 02	
Superintendent's Dept., labour, $78.56; material, $37.52	116 08	
Student microscopes:		
Art Metropole, microscopes	537 12	
	$2,993 57	
Less credits: Laboratory deposits, $228.25; sale of material, $62.75.	291 00	
		$2,702 57

29. CHEMISTRY

Maintenance:	
Chemistry:	
Chemicals, glassware, apparatus, etc. ($9,982.75):	
Aikenhead Hardware Ltd., hardware	$12 88
Baker Platinum Co., wire	26 60
Barrett Co., chemicals	11 47
Bausch & Lomb Optical Co., plate	29 97
Belle Ewart Ice & Fuel Co., ice	12 00
W. E. Booth & Co., photo plates	27 38
British Drug Houses, chemicals	249 42
Canadian Kodak Co., chemicals	826 83
Canadian Laboratory Supplies, chemicals, glassware, etc.	3,024 07
Central Scientific Co., glassware, etc	313 40
R. H. Chappell, glassblowing	49 80
Chemicals, Ltd., chemicals	13 20
Day Sign Co., transformer	14 00
Dominion Oxygen Co., gas	26 15
T. Eaton Co., grinder, stools, table, etc	22 53
Gustav Fock, text books	28 79
Paul Haack, glassware	82 88
Hart House, tomato juice	29 44
J. F. Hartz Co., chemicals, etc	30 36
Adam Hilger, refractometer, rods, etc	296 03
Ingram & Bell, glassware, clamps, thermometers, etc	550 89
W. H. Kubbinga, clamps, containers, etc	40 12
Leeds & Northrup, resistor and coils	42 99
Mallinckrodt Chemical Works, chemicals	218 54
Medicine Hat Pottery Co., crocks and pans	16 80
Merck & Co., chemicals, etc	468 25
National Drug & Chemical Co., acids and chemicals	40 05
Nichols Chemical Co., chemicals and containers	647 50
Ontario Cork Co., corks	155 81
Staatleche Porzellan, crucible	14 81
Postage	25 50
Richardson, Bond & Wright, cards, etc	35 92
Schering, A.G., acids	15 63
Shawinigan Chemicals, Ltd., chemicals	14 22
Standard Chemical Co., chemicals	73 90
Stephens Sales Ltd., stencils, paper and ink	136 72
Textile Products, towels	206 40
E. M. Tozer, rock sample and crushing ore	28 25
Wall Chemicals Ltd., oxygen	20 00
Williams & Wilson, elements and crucibles	72 40
Wilson Scientific Co., burners, glassware, chemicals, etc.	688 69
University Press, printing and stationery	603 06
Accounts under $10 (23)	130 30

Sundry disbursements by department:		
Hardware, $47.26; telegrams, express and stationery, $17.41; glassware, $10.61; sundries, $54.64	129 92	
Superintendent's Dept., freight, $108.70; labour, $177.30; material, $192.88	478 88	
Repairs and renewals ($436.15):		
Canadian Laboratory Supplies, balance repaired	39 20	
General Motors, overhauling frigidaire	27 00	
Accounts under $10 (2)	11 82	
Superintendent's Dept., labour, $274.99; material, $83.14	358 13	
Clerical assistance ($72.41):		
Mrs. R. Fortescue, 2½ days	6 25	
H. S. Funnell, 1 week, 2 days	21 35	
Miss L. Reeves, 2 hours	1 00	
Miss M. Sonley, 2 weeks, 4 days	43 81	
	$10.491 31	
Less credits: Laboratory deposits, $3,884.46; containers returned. $217.60; assays, etc., $317	4.419 06	
		$6,072 25
Physical Chemistry:		
Supplies, chemicals, etc.:		
American Institute of Physics, reprints	$21 64	
Canada Metal Co., castings	13 23	
Canadian Kodak Co., chemicals	37 37	
Canadian Laboratory Supplies, chemicals, glassware, thermometers, etc.	227 62	
Central Scientific Co., oven	37 73	
R. H. Chappell, glassblowing	51 90	
Paul Haack, micro absorption apparatus	39 18	
Johnson, Matthey & Co., silver dishes	32 16	
W. H. Kubbinga, electrical work	25 36	
C. LeRoy, frame	10 00	
Mack Printing Co., reprints	55 26	
Macalstu, Bicknell Co., apparatus	50 31	
Merck & Co., benzine	17 23	
Accounts under $10 (11)	52 39	
Superintendent's Dept., freight, $14.99; labour, $2.05; material, $7.06	24 10	
		$695 48
Electro-Chemistry:		
Supplies ($1,387.38):		
Aikenhead Hardware Ltd., hardware	$16 02	
American Institute of Physics, reprints	11 44	
Belle Ewart Ice & Fuel Co., ice	12 00	
Canadian Asbestos Ltd., asbestos, cement, paper, etc.	28 50	
Canadian Laboratory Supplies, glassware, etc.	86 37	
Central Scientific Co., glassware, etc.	111 31	
R. H. Chappell, glassblowing	60 29	
Dominion Oxygen Co., regulator	13 75	
Electro-Chemical Society, reprints	16 62	
G. A. Hardie & Co., towels	26 10	
A. H. Heatly, line drawings	27 00	
Johnson, Matthey & Co., wire and electrodes	14 92	
Liquid Carbonic Corporation, dry ice	12 58	
Ontario Rubber Co., tubing	75 00	
Photographic Service, slides, etc.	34 35	
Radio Trade Supply Co., radio parts	54 81	
Richardson, Bond & Wright, cards and graph sheets	106 47	
Synthetic Drug Co., glassware	48 00	
Wall Chemicals Ltd., oxygen	15 00	
University Press, printing and stationery	171 32	
Accounts under $10 (15)	69 07	
Sundry disbursements by department:		
Hardware, $21.46; chemicals and stationery, $8.51; sundries, $10.10	40 07	
Superintendent's Dept., freight, $3.82; labour, $69.16; material, $263.41	336 39	

Apparatus ($1,086.21):		
Central Scientific Co., glassware. air pump, crayons, etc.	611 53	
R. H. Chappell, glassblowing	34 10	
General Motors Laboratories, galvanometer	59 45	
W. H. Kubbinga, electrical and machine work	53 74	
W. R. McKee, apparatus repairs	40 95	
Pryal & Nye, batteries	15 58	
Leeds & Northrup Co., potentiometer	74 50	
Williams & Wilson, crucibles	84 63	
Accounts under $10 (4)	26 70	
Superintendent's Dept., freight, $9.61; labour, $59.59; material, $15.83	85 03	
	$2,473 59	
Less credit: Laboratory deposits	102 80	
		$2.370 79
		$9,138 52

30. BIOLOGY

Laboratory and lecture room supplies, museum specimens, supplies and catalogue ($4,530.82):		
Agfa Ansco Ltd., chemicals and film	$12 10	
Aikenhead Hardware Ltd., hardware	97 90	
Allen Mfg. Co., laundry	88 74	
Art Metropole, lamp casing	46 31	
Baird & Montgomery, boxes	13 26	
Bausch & Lomb Optical Co., magnifier discs	21 56	
Biological Board of Canada, chemicals	10 95	
Biological Supply Co., specimens	88 47	
W. E. Booth Co., chemicals and plates	42 28	
Braun-Knecht-Haimann Co., oxygen apparatus	18 22	
Canadian Kodak Co., chemicals. lamp, etc.	14 20	
Walter A. Carveth, microscope, camera, stands, epidiascope, etc.	270 75	
Central Scientific Co., apparatus, glassware. chemicals etc.	643 58	
R. H. Chappell, glassblowing	23 60	
Coleman & Bell, chemicals	11 17	
Corbett-Cowley Ltd., laboratory coats	66 62	
Eastman Photographic Stores, film	10 95	
T. Eaton Co., cotton, watch repairs, etc.	19 82	
C. Emmett, animals	253 40	
Fisher Scientific Co., balance	11 76	
J. A. Fontaine, frogs	63 00	
Freyseng Cork Co., corks	12 35	
Genera Insectorum. subscription	67 84	
General Biological Supply House, specimens	12 17	
General Radio Co., condenser and potentiometers	63 11	
D. Gestetner Ltd., ink and stencils	170 12	
Gevaert Co., plates, paper and glassware	89 99	
J. F. Hartz Co., chemicals, glassware, needles, etc.	199 40	
Harvard Apparatus Co.. heart levers	13 93	
Holliday Flint Glass Works, vials	20 81	
Ingram & Bell, stain	12 54	
Keenan-Woodenware Mfg. Co., pickle kits	10 08	
Kelley Feed & Seed Co., feed	22 70	
W. J. LeRay. travelling and collecting expenses	102 08	
Lever Bros., glycerine	34 31	
Jos. McDowell & Co., rental of calculating machine	75 00	
Mallinckrodt Chemical Works, chemicals	51 49	
Maple Leaf Milling Co., flour and feed	21 68	
Marine Biological Laboratories, specimens	76 10	
Matthews, McCutcheon & Co., lamps	17 20	
Merck & Co., chemicals. etc.	24 37	
Murphy's Drug Store, films	57 40	
New York Scientific Supply Co., specimens	18 17	
Office Specialty Mfg. Co., card cabinet	13 25	
Ontario Agricultural College. eggs	11 10	
Thos. Pocklington, paper	39 00	
Postage	16 00	
David Richardson, specimens	48 01	
Robbins & Townsend, line-a-time rebuilt	14 00	

Royal Ontario Museum, hand book	13 00	
Standard Chemical Works, chemicals	28 75	
Stephens Sales Ltd., paper and coupons	158 10	
T. H. Stovell, travelling and collecting expenses	50 00	
Taylor Instrument Co., thermometers and charts	34 37	
Arthur H. Thomas, control valve, etc.	12 52	
S. S. White Dental Mfg. Co., resistors	25 75	
Wholesale Radio Co., radio parts	97 67	
University Press, printing and stationery	171 27	
Accounts under $10 (37)	172 93	
Sundry disbursements by department:		
Animals, fruit and vegetables, $28.13; hardware, $11.52; sundries, $30.28	69 93	
Superintendent's Dept., freight, $91.86; labour, $94.72; material, $367.11	553 69	
Marine laboratories, collecting:		
T. H. Stovell	$49 88	
Furnishings, fittings and equipment ($1,131.38):		
Aikenhead Hardware Ltd., hardware	2 95	
Bay Salvage Co., chair and pad	12 00	
D. Gestetner Ltd., electrifying machine	245 00	
Robbins & Townsend, rebuilt typewriter	75 00	
Wilson Stationery & Printing Co., files	20 00	
Superintendent's Dept., labour, $481.19; material, $295.24	776 43	
Messenger service:		
Arthur Jeffreys, 35 weeks, 4 days	250 00	
Incidentals ($453.55):		
Munson Supply Co., typewriter keys	11 00	
Postage	68 00	
Robbins & Townsend, typewriter inspection	15 75	
Arthur Taylor, cleaning books	10 00	
University Press, printing and stationery	302 50	
Accounts under $10 (2)	13 30	
Sundry disbursements by department:		
Telegrams, etc., $4.33; stationery and drugs, $13.21; sundries, $12.46	30 00	
Superintendent's Dept., labour	3 00	
	$6,415 63	
Less credits: Laboratory deposits, $896.13; sale of material, etc., $198.62	1,094 75	
		$5,320 88

31. Botany

Laboratory, office supplies, labour, etc. ($3,619.83):	
Allen Mfg. Co., laundry	$22 77
Barnstead Still & Sterilizer Co., heating elements	20 17
W. E. Booth Co., films and plates	39 09
British Drug Houses, chemicals	21 81
Brown Bros., books, envelopes, etc.	137 07
Canadian Laboratory Supplies, chemicals	59 86
Canadian Liquid Air Co., gas	27 80
Canadian Johns-Manville Co., felt	17 35
Canadian Pad & Paper Co., paper	15 66
Central Scientific Co., chemicals, glassware, etc.	266 61
Mrs. A. Chilton, laundry	14 75
Fred Cogo, soil	18 30
Defender Photo Supply Co., films and negatives	10 11
Eastman Photographic Stores, films, paper, etc.	51 63
T. Eaton Co., razor blades	20 88
Fisher Scientific Co., stoppers and wax	66 64
Julien P. Friez & Sons, charts	13 69
Gevaert Co., lantern plates	25 00
Grand & Toy, folders, papers, etc.	67 05
Fred W. Halls Paper Co., paper	45 09
J. F. Hartz Co., slides, covers, etc.	39 60
L. E. Jones, negatives and slides	16 08
Kelvinator Ltd., refrigerator repairs	48 45
Kilgour's Ltd., bags	11 41
W. H. Kubbinga, machine work	47 87
Mallinckrodt Chemical Works, chemicals	39 22

Marine Biological Laboratory, specimens	26 87
Merck & Co., chemicals	52 19
Nichols Chemical Co., acids, etc	22 77
Parisian Laundry Co., laundry	84 30
J. Patterson, specimens	18 00
Photographic Service, prints, slides, etc	36 22
Postage	105 33
Robbins & Townsend, typewriter inspection	14 80
Telfer Paper Box Co., filing cases	41 85
F. Verdoorn, subscription	42 91
Edward Wick & Co., razor	16 75
Theodor Oswald Weigal, subscription	27 83
Wilson Scientific Co., chemicals and glassware	134 59
Louis O. Williams, specimens	25 21
Laboratory assistance:	
W. M. C. Chilton, 176 hours	48 40
D. S. Hull, 393½ hours	157 40
Miss M. Stevens, 8 weeks	100 00
University Press, printing and stationery	566 97
Accounts under $10 (29)	123 31
Travelling expenses, members of staff:	
H. S. Jackson	78 95
Dr. J. Gertrude Wright	18 50
H. B. Sifton	17 85
D. L. Bailey	15 00
Sundry persons	31 40
Sundry disbursements by department:	
Drugs and stationery, $30.01; hardware, $13.54; supplies, $15.59; telegrams, etc., $26.96; sundries, $25.74	111 84
Superintendent's Dept., freight, $70.75; labour, $233.98; material, $231.90	536 63
Herbaria, Bear Island Laboratory:	
Cases, labour, supplies, etc. ($849.15):	
R. F. Cain, travelling expenses	60 10
T. Eaton Co., paint	33 43
J. P. Lanvoi, boat repairs, wood, and painting	73 50
J. W. Magnus Co., valve pin, etc	2 61
Office Specialty Mfg. Co., cases	480 00
Provincial Treasurer, rental of Bear Island lot	10 00
R. C. Russell, seed and specimens	24 67
Miss M. Steven, clerical assistance	12 50
Miss J. E. Tilden, index cards	61 11
P. Train, specimens	50 24
L. Williams, specimens	31 22
Superintendent's Dept., labour, $7.36; material, $2.41	9 77
Botanic Gardens and Greenhouse supplies and labour ($1,615.31):	
Assistant Gardeners:	
W. M. C. Chilton, 2,032½ hours	583 00
D. S. Hull, 606½ hours	242 60
Wm. A. Clark, 614 hours	122 80
Dale Estate, peat and fibre	12 00
Alex. McKay Co., sand	25 08
Medicine Hat Pottery Co., flower pots	50 64
Ocean Chemicals Ltd., fumigating	45 30
A. Simpson, travelling and collecting expenses	90 40
Miss G. S. Taylor, clerical assistance, 8 mos	175 00
W. P. Warner, soil and fertilizer	31 50
Ed. Webb & Sons, plants, charcoal, etc	34 65
Wilson & Bunnell, photostats	10 00
Accounts under $10 (13)	68 42
Sundry disbursements by department:	
Hardware, $7.72; seeds, $5.45; supplies, $11.61; sundries, $8.46	33 24
Superintendent's Dept., labour, $29.59; material, $61.09	90 68
Apparatus and equipment ($1,194.82):	
Anchor Cap & Closure Corporation, caps	23 48
R. H. Chappell, glassblowing	72 00
Consumers' Glass Co., bottles	33 42
Dominion Glass Co., bottles	16 20
Instruments Ltd., repairs to equipment	25 75
Matthews, McCutcheon Co., microscopes and photometer	521 95

Motor Meter Co., thermometer	32 93	
Office Specialty Mfg. Co., file and steel connection	106 75	
Accounts under $10 (4)	17 83	
Superintendent's Dept., labour, $226.47; material, $118.04	344 51	
	$7,279 11	
Less credits: Laboratory deposits, $547.67; sale of material, $321.51	869 18	
		$6,409 93

32. HISTORY

Class room supplies ($194.28):		
Denoyer-Geppert Co., maps	$36 75	
Houghton, Mifflin Co., maps	31 21	
Postage	20 00	
University Press, printing and stationery	80 23	
Accounts under $10 (5)	23 47	
Superintendent's Dept., freight	2 62	
Secretarial assistant:		
Miss F. Hahn, 9 mos	900 00	
Research expenses ($92.55):		
Travelling expenses:		
Miss S. Hankin	17 55	
Miss E. Frumhartz	15 30	
Mrs. D. P. Plaunt	15 30	
Miss M. M. Clark	13 30	
W. H. Fowler	13 30	
E. P. Ray	13 30	
L. J. Curnoe	4 50	
		$1,186 83

33. ANTHROPOLOGY

Class room supplies:		
Photographic service, lantern service	$5 00	
Purchase of Indian manuscript:		
Prof. T. F. McIlwraith, re-imbursement for Indian manuscript	50 00	
Sociology Course:		
Supplies:		
Miss B. Ginsberg, clerical assistance	3 00	
University Press, printing and stationery	11 50	
		$69 50

34. ARCHAEOLOGY

Class room supplies:		
Board of Education, prints	$10 42	
W. F. Moore, slides	8 00	
Photographic Service, slides and prints	350 35	
United Church Publishing House, slides	11 75	
University of London, slides	14 97	
University Press, printing and stationery	23 44	
		$418 93

35. FINE ART

Equipment ($151.16):		
Art Gallery of Toronto, drawing supplies	$11 22	
Laidlaw Lumber Co., models	24 30	
Matthews, McCutcheon & Co., projector	72 10	
Office Specialty Mfg. Co., chair and cabinets	43 54	
Slides, journals and stationery, use of lantern and operators ($501.44):		
College Art Association, membership fee	10 21	
Mellors Fine Arts Ltd., mounting prints	46 85	
Photographic Service, prints, slides and lantern service	322 95	
Postage	12 00	
Norman S. C. Reid, mounting prints	50 00	
University Press, printing and stationery	19 44	
Accounts under $10 (4)	21 30	
Sundry disbursements by department	10 00	
Superintendent's Dept., labour, $5.08; material, $3.61	8 69	
Occasional assistance in Library:		
Miss E. A. Hudson, 8 mos	450 00	
Books, pictures, etc. ($898.02):		
Professor John Alford, book	15 00	
Art Gallery of Toronto, catalogue	11 25	
Mellors Fine Arts Ltd., prints, framing, etc	398 07	

Pallas Gallery Ltd., pictures		257 83	
University Press		209 61	
Accounts under $10 (2)		5 18	
Superintendent's Dept., freight		1 08	
		$2,000 62	
Less charged to J. W. L. Forster Fund	$898 02		
credit from slides replaced	2 50		
		900 52	
			$1.100 10

36. Geography

Maintenance ($550.68):		
Aikenhead Hardware Ltd., hardware	$13 05	
Art Metropole, tracing paper, brushes, etc	42 50	
Denoyer-Geppert Co., maps	74 67	
Grand & Toy, transfer cases	32 50	
Mimeograph Co., paper, ink, etc	44 90	
Moyer School Supplies, Ltd., blackboards, instruments, maps, etc	61 15	
Photographic Service, prints and slides	50 50	
University Press, printing and stationery	123 75	
Accounts under $10 (11)	40 15	
Sundry disbursements by department:		
Stationery, $14.62; sundries, $25.57	40 19	
Superintendent's Dept., freight, $2.34; labour, $11.37; material, $13.61	27 32	
Apparatus and furniture (623.50):		
Art Metropole, cabinet and drawing material	67 62	
Canadian Laboratory Supplies, barometers and planimeter	85 75	
Griffin & Tatlock, theodolate measurers, etc	40 45	
Moyer School Supplies Ltd., carpenter's bench	27 25	
Geo. Philip & Son, globes and maps	105 14	
Robt. Simpson Co., tables	218 70	
University Press, books	27 50	
Accounts under $10 (2)	6 79	
Superintendent's Dept., freight, $1; labour, $23.77; material, $19.53	44 30	
		$1.174 18

37. Political Economy

Office and class room supplies ($579.10):		
Grand & Toy, reconditioned desk and scale	$37 25	
Lytle & Lytle, files	11 75	
Jas. McDowell & Co., calculator inspection	28 00	
Photographic Service, slides and lantern service	17 20	
Postage	153 50	
Robbins & Townsend, typewriter inspection	19 75	
Stephens Sales Ltd., ink, paper and stencils	45 79	
University of Toronto Commerce Club, journal	18 50	
University Press, printing and stationery	196 23	
Accounts under $10 (10)	34 33	
Sundry disbursements by department	13 77	
Superintendent's Dept., freight	3 03	
Clerical assistance ($1,726.52):		
Miss Jean I. Horrell, 10 mos	1.000 00	
Miss J. E. Leitch, 9 mos., 18 days	720 00	
Miss J. Arnold, 14½ hours (paid also in the Library)	6 52	
		$2.305 62
Less credit from sale of material	3 95	
		$2,301 67

38. Law

Office and class room supplies:		
Postage	$71 00	
University Press, printing and stationery	40 02	
Accounts under $10 (2)	11 10	
Superintendent's Dept., labour, $21.28; material, $19.36	40 64	
		$162 76

39. Philosophy

Supplies, clerical assistance, etc.:		
Robbins & Townsend, typewriter rental	$12 00	
University Press, printing and stationery	17 83	
Accounts under $10 (2)	3 00	

Clerical assistance:		
Miss H. DesBrisay, 104 hours	52 00	
R. Jacques, 60½ hours	38 00	
		$122 83

40. PSYCHOLOGY

Supplies ($1,390.62):		
Aikenhead Hardware Ltd., hardware	$68 79	
Beardmore Leathers Ltd., belting	26 75	
Robert Bury, lumber	11 79	
Canadian National Telegraphs	13 69	
Eastman Photographic Service, films	14 39	
T. Eaton Co., oilcloth	21 60	
D. Gestetner Ltd., ink, stencils, etc.	145 92	
Kelley Feed & Seed Co., feed	16 85	
Lockhart's Camera Exchange, chemicals, plates, etc.	20 00	
Mayetta Apparatus Co., tests	20 51	
Postage	58 00	
Prest-O-Lite Storage Battery Co.	17 60	
Psychological Corporation, tests	41 78	
Robbins & Townsend, typewriter inspection	10 80	
John B. Smith & Sons, lumber	102 13	
University Press, printing and stationery	411 48	
Accounts under $10 (25)	121 63	
Sundry disbursements by department:		
Drugs, stationery, etc., $7.98; hardware, $12.85; sundries, $9.17	30 00	
Superintendent's Dept., freight, $3.52; labour, $31.32; material, $202.07	236 91	
Apparatus ($608.06):		
R. C. Bush, stop-watch repairs, etc.	22 00	
Canadian Fairbanks-Morse Co., drill	28 00	
Canadian General Electric Co., motors	62 82	
Canadian Kodak Co., wedge and chart	37 96	
Central Scientific Co., tubes, gears and galvanometer	38 58	
Adelbert Ford, films	43 07	
J. F. Hartz Co., dynamometer and esthesiometer	20 00	
Harvard Apparatus Co., magnets	25 22	
Keystone View Corporation, telebinocular service	93 19	
McBain Foundry, castings	15 81	
Office Specialty Mfg. Co., file	13 75	
Radio Trade Supply Co., amplifier	53 86	
R.C.A. Victor Co., gramaphone	15 96	
A. R. Williams Machinery Co., parts	25 05	
Windeler Electric Co., motors	24 00	
Accounts under $10 (11)	44 00	
Superintendent's Dept., labour, $27.72; material, $17.07	44 79	
Clerical assistance:		
Mrs. W. Mussen, 12 mos.	1,050 00	
Laboratory attendance ($950):		
Miss D. D. Hearn, 12 mos. (paid also $600 as Class Assistant)	550 00	
Miss G. Evans, 12 mos. (paid also $350 from Child Research)	400 00	
Laboratory cleaning ($74.48):		
D. G. LeRay	50 00	
A. Welsh	3 00	
Superintendent's Dept., labour	21 48	
		$4,073 16

41. ITALIAN AND SPANISH

Class room supplies and clerical assistance:		
Robbins & Townsend, typewriter inspection	60	
Clerical assistance:		
Miss E. Rigg, 179 hours	126 70	
Miss R. Langhurst, 74 hours	51 80	
Miss M. M. French, 16½ hours	11 55	
University Press, printing and stationery	33 81	
		$224 46

42. UNIVERSITY COLLEGE DEPARTMENTS

Class room supplies:		
Classics ($204.43):		
Grand & Toy, wax seal	$2 75	
Office Specialty Mfg. Co., cards	14 60	
Remington-Rand Ltd., typewriter	65 00	

Miss C. E. Stubs. typing	63 94	
University Press, printing and stationery	58 14	
English:		
University Press, printing and stationery	3 56	
French ($160.19):		
H. L. Humphreys, gramophone needles	50	
Librarie Garneau, book	18 85	
G. E. Stechert & Co., books	22 30	
University Press, printing and stationery	117 94	
Superintendent's Dept., freight	60	
German ($73.55):		
Office Specialty Mfg. Co., filing cabinets	27 25	
Accounts under $10 (2)	9 05	
University Press, printing and stationery	37 25	
Semitics ($74.98):		
Chas. Potter, slides	15 00	
Photographic Service, prints	10 80	
University Press, printing and stationery	49 18	
		$516 71

43. UNIVERSITY COLLEGE GENERAL EXPENSES

Office supplies, stationery, printing and incidentals ($546.28):		
D. Gestetner Ltd., stencils and paper	$81 70	
Herbert J. Nott, photographs	37 00	
Postage	165 00	
Robbins & Townsend, typewriter inspection	12 00	
University Press, printing and stationery	217 97	
Accounts under $10 (3)	15 18	
Superintendent's Dept., labour, $10.97; material, $6.46	17 43	
Messenger service ($450):		
C. Collinson, 42 weeks, 5½ days	440 00	
C. Beatty, 20 hours	10 00	
Sundry expenses of the Principal ($133):		
Dunlop's Ltd., funeral wreath	10 00	
Robt. Simpson Co., First Year Reception and Scholarship Tea	116 00	
Accounts under $10 (2)	7 00	
	$1,129 28	
Less credit from sale of material	38 35	
		$1.090 93

44. UNIVERSITY COLLEGE BUILDING

Heat and light		$5,629 49	
Gas, $90.29; water, $157.05		247 34	
Caretaker's supplies:			
Superintendent's Dept., material		464 66	
Cleaning ($4,924.51):			
Allen Mfg. Co., laundry		31 27	
New York Window Cleaning Co.		47 00	
Superintendent's Dept., labour		4.846 24	
Repairs and renewals ($5.201.63):			
Acme Achitectural & Ornamental Co., fire screens		28 65	
Wm. Bartlett & Son, shades		30 27	
T. Eaton Co.. chairs		136 00	
Grand & Toy, desk		32 00	
Italian Mosaic & Tile Ltd., tiling		7 53	
Ocean Chemicals Ltd., exterminator		15 00	
Routery Bros.. plaster repairs		52 40	
Superintendent's Dept., labour, $3.829.91; material, $1,069.87		4.899 78	
Caretaker, A. Bain, (ob. 18 Feb.) 8 mos. (and overtime $178)		1.000 00	
		$17,467 63	
Less heat and light charged to Central Power Plant	$5.629 49		
Sundry credits: Repairs, $329.10; cleaning, $392.06; supplies, $93.03; sale of material, $17.75	831 94		
		6.461 43	
			$11.006 20

45. McLennan Laboratory (Physics)

Heat and light		$5,347 14	
Gas, $185.30; water, $413.07		598 37	
Caretaker's supplies:			
Superintendent's Dept., material		143 21	
Cleaning ($1,471.14):			
Allen Mfg. Co., laundry		12 00	
New York Window Cleaning Co.		40 50	
Superintendent's Dept., labour		1,418 64	
Repairs and renewals ($2,526.56):			
Wm. Bartlett & Son, shades		23 28	
J. B. Buckham, acousti celotex		305 76	
City Treasurer, elevator license		5 00	
Johnson Temperature Regulating Co., heating system repairs		38 86	
Routery Bros., plaster repairs		11 70	
Superintendent's Dept., labour, $1,465.36; material $676.60		2.141 96	
Caretaker, H. Hill, 12 mos. (and overtime, $13)		1.450 00	
		$11.536 42	
Less heat and light charged to Central Power Plant	$5,347 14		
Sundry credits: Cleaning, $19; key deposits, $5	24 00		
		5,371 14	
			$6,165 28

46. Chemical Building

Heat and light		$2,578 02	
Gas, $360.58; water, $344.52		705 10	
Caretaker's supplies:			
Superintendent's Dept., material		142 53	
Cleaning ($1,613.08):			
Allen Mfg. Co., laundry		22 80	
New York Window Cleaning Co.		18 50	
Superintendent's Dept., labour		1,571 78	
Repairs and renewals ($1,797.27):			
Wm. Bartlett & Son, shade repairs		2 00	
Superintendent's Dept., labour, $1,200.34; material, $594.93		1,795 27	
Caretaker (paid as laboratory assistant with rooms, heat and light valued at $420, chargeable against building and included in above		....	
		$6.836 00	
Less heat and light charged to Central Power Plant	$2.578 02		
Credit for cleaning	4 50		
		2.582 52	
			$4.253 48

47. Biological Building

Heat and light		$2,723 52	
Gas, $79.66; water, $171.52		251 18	
Caretaker's supplies:			
Superintendent's Dept., material		180 07	
Cleaning ($1,829.86):			
Advance Window Cleaning Co.		26 95	
Allen Mfg. Co., laundry		15 72	
Superintendent's Dept., labour		1,787 19	
Repairs and renewals ($2,477.56):			
Wm. Bartlett & Son, shades		23 82	
Dustbane Products Ltd., floor polisher		210 00	
Routery Bros., plaster repairs		238 15	
Superintendent's Dept., labour, $1,441.90; mat. $563.69		2,005 59	
Caretaker, A. J. Wright, 12 mos. (with rooms, heat and light valued at $300) (and overtime, $1)		1,100 00	
		$8.562 19	
Less heat and light charged to Central Power Plant	$2,723 52		
Sundry credits	17 50		
		2,741 02	
			$5.821 17

48. Botanical Building

Heat and light		$4,782 15	
Gas, $52.20; fuel oil, $50; water, $424.46		526 66	
Caretaker's supplies:			
Superintendent's Dept., material		192 84	
Cleaning ($2,126.90):			
Allen Mfg. Co., laundry		19 19	
New York Window Cleaning Co		44 50	
Superintendent's Dept., labour		2,063 21	
Repairs and renewals ($1,361.60):			
Italian Mosaic & Tile Co., tiling		59 25	
H. W. Petrie Co., boiler repairs		11 45	
Service Station Equipment Co., furnace repairs, etc		95 22	
Window Shades & Fittings, blinds		55 62	
Accounts under $10 (2)		9 90	
Superintendent's Dept., labour, $870.45; material, $259.71		1.130 16	
Caretaker, Wm. V. Walker, 12 mos. (and overtime, $42)		1.300 00	
		$10.290 15	
Less heat and light charged to Central Power Plant	$4,782 15		
Credit for cleaning	7 00		
		4,789 15	
			$5.501 00

49. Baldwin House (History)

Light		$177 96	
Fuel ($515.95):			
P. Burns & Co		40 60	
Central Coal Co		475 35	
Gas, 9.92; water, $17.08		27 00	
Caretaker's supplies:			
Superintendent's Dept., material		47 50	
Cleaning and furnaceman ($181.51):			
Advance Window Cleaning Co		8 33	
Superintendent's Dept., labour		173 18	
Repairs and renewals:			
Superintendent's Dept., labour, $438.35; material, $87.72		526 07	
Caretaker, G. A. Town, 12 mos. (and overtime, $65.50)		1,350 00	
		$2.825 99	
Less light charged to Central Power Plant	$177 96		
Credit for cleaning	32 00		
		209 96	
			$2.616 03

50. No. 43 St. George Street

Light		$18 50	
Fuel ($241.88):			
P. Burns & Co		20 40	
Central Coal Co		220 98	
Superintendent's Dept., labour		50	
Gas, $7.58; water, $8.81		16 39	
Caretaker's supplies:			
Superintendent's Dept., material		43 77	
Cleaning, furnaceman, etc. ($429.94):			
Accounts under $10 (2)		9 74	
Superintendent's Dept., labour		420 20	
Repairs and renewals ($192.91):			
City Treasurer, meter repairs		3 24	
Superintendent's Dept., labour, $170.39; material, $19.28		189 67	
		$943 39	
Less light charged to Central Power Plant	$18 50		
Credit for cleaning	1 00		
		19 50	
			$923 89

51. No. 45 St. George Street (Law)

Light		$44 96	
Fuel ($393.50):			
P. Burns & Co.		60 60	
Central Coal Co.		331 45	
Superintendent's Dept., labour		1 45	
Gas, $26.44; water, $11.77		38 21	
Caretaker's supplies:			
Superintendent's Dept., material		50 49	
Cleaning ($431.20):			
New York Window Cleaning Co.		4 50	
Superintendent's Dept., labour		426 70	
Repairs and renewals:			
Superintendent's Dept., labour, $246.32; material, $111.89		358 21	
		$1.316 57	
Less light charged to Central Power Plant	$44 96		
Credit for cleaning	4 50		
		49 46	
			$1.267 11

52. No. 47 St. George Street (Applied Mathematics)

Fuel ($277.47):			
P. Burns & Co.		$20 20	
Central Coal Co.		257 27	
Electric current, $56.30; water, $8		64 30	
Caretaker's supplies:			
Superintendent's Dept., material		22 04	
Cleaning, furnaceman, etc. ($222.08):			
Toronto Window Cleaning Co.		2 90	
Superintendent's Dept., labour		219 18	
Repairs and renewals ($257.01):			
Wm. Bartlett & Son, shades		2 26	
Routery Bros., plaster repairs		17 30	
Superintendent's Dept., labour, $201.26; material, $36.19		237 45	
		$842 90	
Less sundry credits		5 50	
			$837 40

53. Economics Building

Light		$6 00	
Fuel:			
Milnes Coal Co.		1.879 39	
Gas, $95.30; electric current, $1,106.01; water, $69.68		1.270 99	
Caretaker's supplies:			
Superintendent's Dept., material		273 99	
Cleaning and fireman ($3,250.13):			
Allen Mfg. Co., laundry		30 96	
New York Window Cleaning Co.		27 50	
Superintendent's Dept., labour		3.191 67	
Repairs and renewals ($1,976.07):			
Wm. Bartlett & Son, shades		84 76	
Dustbane Products Ltd., floor polisher		210 00	
T. Eaton Co., chairs		93 75	
Jes Git Floor Finishers, re-surfacing linoleum		73 50	
Grand & Toy, desk		32 00	
Accounts under $10 (2)		16 85	
Superintendent's Dept., labour, $1,032.67; material, $432.54		1.465 21	
Sundries—Mechanical stoker ($1,183.62):			
Compressed Air Equipment Ltd., air compressor rental, tools and operator		12 50	
Livingstone Stokes Ltd., installing and wiring stoker		1.050 00	
Superintendent's Dept., labour, $61.80; material, $59.32		121 12	
Caretaker, Jas. McCormack, 12 mos. (with rooms valued @ $100 (and overtime, $122.25)		1.100 00	
		$10.940 19	
Less light charged to Central Power Plant	$6 00		
Credit for cleaning, etc.	37 55		
		43 55	
			$10.896 64

54. PSYCHOLOGY BUILDINGS

Light	$94 82	
Fuel ($673.94):		
P. Burns & Co.	10 10	
Central Coal Co.	663 84	
Gas, $15; electric current, $65.73; water, $24	104 73	
Caretaker's supplies:		
Superintendent's Dept., material	58 69	
Cleaning, furnaceman, etc. ($993.61):		
Accounts under $10 (2)	14 40	
Superintendent's Dept., labour	979 21	
Repairs and renewals ($850.47):		
Wm. Bartlett & Son, shades	4 22	
Routery Bros., plaster repairs	44 95	
Superintendent's Dept., labour, $614.82; material, $186.48	801 30	
	$2.776 26	
Less light charged to Central Power Plant	94 82	
		$2.681 44

55. DAVID DUNLAP OBSERVATORY

Fuel:		
Milnes Coal Co.	$491 47	
Electric current	715 71	
Caretaker's supplies:		
Superintendent's Dept., material	32 72	
Repairs and renewals ($614.34):		
Vacu-Draft Ltd., installing vacu-draft in caretaker's apartment	73 00	
Superintendent's Dept., labour, $458.85; material, $82.49	541 34	
Sundries ($1,083.03):		
Bowden Lumber & Coal Co., sewer repairs	32 68	
L. Freeborn, vacu-draft repairs	4 50	
J. Jarvis, sand and gravel	17 25	
E. F. Roberts, installing pump	102 50	
Sheridan Nurseries, trees	12 00	
Telephone:		
Bell Telephone Co., service	55 00	
Superintendent's Dept., labour, $725.55; material, $133.55	859 10	
Caretaker, T. McKenzie, 12 mos. (with quarters valued @ $180) (and overtime, $37.50)	780 00	
	$3,717 27	
Less credits: Heat, light and water (Prof. Chant) $72.75; share of pump repairs (paid from Insurance) $51.25; cleaning, $1	125 00	
		$3.592 27
		$858,216 82

VII. FACULTY OF MEDICINE

56. SALARIES

Administration

W. E. Gallie, Dean (paid also $10,000 as Professor of Surgery)	$1,000 00	
E. S. Ryerson, Assistant Dean and Secretary of Faculty and Assistant Professor of Surgery (paid also $400 in Dentistry and $10 for Post Graduate Courses)	5,000 00	
Assistants:		
Miss M. W. Jones	1,850 00	
Miss O. Russell	1,800 00	
Miss A. Perry	1,550 00	
H. Saunders, Messenger	850 00	
Hospital Theatre, Toronto General Hospital:		
C. Hart, Attendant	1.550 00	
R. Murray, Attendant in Cloak Room	500 00	
		$14,100 00

Anatomy

Professors:		
J. C. B. Grant	$7.000 00	
W. H. Piersol, Histology and Embryology, @ $5,100. of which half charged to Biology	2.550 00	
J. C. Watt	4.800 00	
Associate Professors:		
A. W. Ham	3.850 00	
H. A. Cates	4.050 00	
R. K. George, Assistant Professor	3.100 00	
G. C. Smith, Lecturer (Sessional)	2.000 00	
Demonstrators (Sessional):		
Miss K. I. McMurrich (paid also $150 in Athletics and Physical Training — Women)	700 00	
M. C. Watson	500 00	
C. P. McCormick (paid also $400 in Physiology)	350 00	
M. J. Wilson (paid also $400 from Medical Research — Best Fund)	400 00	
H. D. Ball (paid also $150 in Athletics and Physical Training — Women. and $150 for Extension Work)	500 00	
H. C. Elliott	500 00	
F. P. Dewar (paid also $250 from Medical Research — Best Fund)	250 00	
M. W. Hicks (paid also $200 from Medical Research — Best Fund)	200 00	
R. H. Flett	175 00	
I. D. Kitchen	175 00	
A. N. McKillop	175 00	
R. G. MacKenzie (paid also as Prosector)	125 00	
Miss E. H. Britton	150 00	
F. L. Lawson	55 00	
W. E. L. Sparks (paid also $100 in Health Service)	55 00	
A. E. Montgomery, Dental Anatomy	300 00	
Prosectors (Sessional):		
Brock R. Brown	150 00	
Freda Richardson	75 00	
R. G. McKenzie (see also above)	75 00	
H. E. LeMasurier, Senior Technical Assistant (paid also $125 for X-Ray work)	1.800 00	
H. F. Whittaker. Technical Assistant (paid also $120 in Dentistry)	750 00	
G. A. L. Ross. Animal Caretaker	700 00	
Miss G. Dowsley. Clerical Assistant	1.300 00	
Laboratory Assistants:		
H. McCormick (paid also $15 in Post Graduate Courses)	1.700 00	
S. George (paid also $5 in Post Graduate Courses)	1.500 00	
B. L. Guyatt. Museum Curator (part time)	1.000 00	
Chas. E. Storton, Laboratory Boy	650 00	
	$41.660 00	
Less paid by School of Nursing	200 00	
		$41.460 00

Pathology and Bacteriology

Professors:		
Wm. Boyd	$8.000 00	
W. L. Holman. Bacteriology. also Associate Director of Applied Bacteriology	5.000 00	
W. L. Robinson. Pathology, also Associate Director of Applied Pathology	2.200 00	
Assistant Professors:		
G. Shanks. Pathology	250 00	
G. Lyman Duff	2.250 00	
W. Magner. Special Lecturer, Pathology (Sessional)	750 00	
Lecturer (Sessional):		
I. H. Erb. Pathology	200 00	
P. H. Greey. Bacteriology	1.800 00	
R. Margarite Price. Bacteriology and Serology	3.000 00	
Fellows (Sessional):		
M. O. Klotz	1.200 00	
E. O. Magner	1.000 00	
D. R. E. Macleod	1.000 00	
L. M. Gray, Museum. 11 mos	1.000 00	

Demonstrators (Sessional):		
H. C. Hare, Pathology	500 00	
Bacteriology:		
E. J. Clifford	100 00	
J. D. Balfour (without salary)	....	
Marion Ross (without salary)	....	
Assistants in Laboratory:		
Miss N. W. Simpson. Pathology	1,500 00	
Miss H. M. Boyd, Bacteriology	1.020 00	
Technician:		
Miss M. G. Hein, to 31 August (transferred to Neuropathology Division from 1 September)	190 00	
Miss C. M. Westlake (vice Miss Hein)	780 00	
Miss A. Alvey. Special Technician	1,100 00	
Laboratory attendants for preparing Media:		
Miss E. A. Gordon, 11 mos.	1.200 00	
Miss M. Jackson	840 00	
A. Vowles	600 00	
Miss G. K. R. Boyd. Secretary	1.260 00	
Miss H. M. Hammond. Librarian and Assistant Secretary	1,020 00	
Miss V. L. McKinnon, Museum Stenographer	1,260 00	
J. F. Payne, Preparator	1,800 00	
Miss Erna Eck, Junior Attendant in Museum	600 00	
Miss Margaret Wightman. Autopsy Recorder	960 00	
Miss G. F. Johnston, Autopsy Technician	960 00	
	$43.340 00	
Division of Neuropathology:		
E. A. Linell. Professor	4.500 00	
Dr. Mary I. Tom, Lecturer (Sessional)	1.950 00	
J. C. Richardson. Fellow (Sessional)	1.000 00	
Technician:		
Miss H. P. Tett (resigned 1 September)	183 34	
Miss M. G. Hein (vice Miss Tett — see also above)	950 00	
Technician. Medicine and Surgery:		
Miss K. Howitt (resigned 14 April)	807 50	
Miss H. Rogers (vice Miss Howitt)	140 00	
Miss C. A. Bell, Secretary	1.100 00	
		$53.970 84

Pathological Chemistry

Andrew Hunter. Professor (paid also by Connaught Laboratories)	$6.000 00	
T. F. Nicholson. Associate Professor	3.450 00	
R. W. I. Urquhart. Lecturer (Sessional)	1.000 00	
Demonstrators (Sessional):		
D. L. Selby	600 00	
D. H. Boddington	500 00	
J. Stuart Wilson	250 00	
G. P. Hamblin. Assistant (part time — Sessional)	250 00	
Fellows (Sessional):		
F. H. Lawford (paid also $270 from Medical Research — Banting Fund — resigned 31 January)	550 00	
H. E. Woodward (vice F. H. Lawford)	600 00	
A. G. Gornall	800 00	
C. E. Downs. Technician	1.500 00	
Harrison Downs, Laboratory Assistant	1.100 00	
Laboratory Attendants:		
Mrs. J. Faulds	750 00	
Mrs. C. McCallum (paid also $155.52 from Medical Research — Banting Fund)	350 00	
Miss C. A. Shannon. Secretary	1.200 00	
		$18.900 00

Pharmacy and Pharmacology

V. E. Henderson. Professor	$6,000 00	
G. H. W. Lucas. Associate Professor	3.800 00	
Fellows (Sessional):		
D. D. Bonnycastle	1.500 00	
H. V. Rice	1.500 00	
A. Brock. Technical Assistant	2.100 00	

Chester Codner, Laboratory Attendant	1.160 00	
A. C. Morrison, Cleaner	750 00	
Miss D. Caldecott, Clerical Assistant	550 00	
		$17.360 00

Bio-Chemistry

Professors:		
H. Wasteneys	$6,000 00	
G. F. Marian	5,000 00	
A. M. Wynne, Associate Professor	3.800 00	
B. F. Crocker, Lecturer	1,800 00	
Fellows (Sessional):		
G. C. Butler (paid also $200 in Special Research)	1.000 00	
A. D. Odell	900 00	
W. H. Fishman (paid also $200 in Special Research)	850 00	
Paul Hamilton (paid also $200 in Special Research)	850 00	
Miss E. A. McPherson	800 00	
Miss M. Delamere, Secretarial Assistant	1,350 00	
Technicians:		
J. W. Fletcher, Senior	1,650 00	
L. Sloan	1.650 00	
J. H. McClary	1.100 00	
Miss D. I. Skill	1,050 00	
Laboratory Assistants:		
G. Lumbard	1.050 00	
W. Clough	1.050 00	
Mrs. Ethel Wilkie, Laboratory Attendant	750 00	
		$30.650 00

Physiology

Professors:		
C. H. Best (paid also by Connaught Laboratories and $2.500 from Medical Research — Best Fund)	$6.000 00	
N. B. Taylor	4.500 00	
Assistant Professors:		
D. Y. Solandt (paid also $150 in Athletics and Physical Training — Women)	3.500 00	
E. T. Waters (paid also $350 for Extension Work)	2.900 00	
E. H. Botterell, Lecturer, Neuro-physiology (paid also $1,500 in Surgery and $20 for Extension Work)	1.500 00	
E. Fidlar, Lecturer and Research Associate	1,500 00	
C. K. Gunn, Demonstrator (Sessional — resigned 31 July)	133 33	
R. E. Haist, Research Assistant (Sessional — vice C. K. Gunn; paid also $100 from Medical Research — Best Fund)	1,466 67	
Fellows (Sessional):		
L. B. Jaques	1.000 00	
J. W. Scott	600 00	
C. P. McCormick (part time)	400 00	
Miss Mabel Cory, Departmental Librarian	1.250 00	
Miss Doris Secord, Secretarial Assistant	1.250 00	
A. Elliott, Mechanician	1.800 00	
F. L. Robinson, Technical Assistant and Glass-blower (paid also $500 from Medical Research — Best Fund)	2.000 00	
J. D. Brown, Technical Assistant, Biophysics	1.500 00	
W. Huntley, Laboratory Assistant for Teaching Laboratories (resigned 23 May)	1.298 00	
G. L. Robinson, Animal Caretaker	1.250 00	
A. D. Crouch, Assistant Animal Caretaker	950 00	
		$34.798 00

Hygiene and Preventive Medicine

Professors (paid also by Connaught Laboratories):		
J. G. FitzGerald (part time — see also School of Hygiene)	....	
R. D. Defries, Hygiene and Epidemiology (part time — paid also $2,500 in School of Hygiene)	1,000 00	
D. T. Fraser	4.500 00	
P. J. Moloney, Associate Professor (see also School of Hygiene)	....	
Assistant Professors (paid also by Connaught Laboratories):		
M. H. Brown	1,000 00	
Frieda H. Fraser	1.000 00	

Demonstrators (Sessional):		
F. O. Wishart (paid also by Connaught Laboratories)	1,400 00	
J. M. Corkill (resigned 15 April)	1,137 50	
A. M. Fallis	400 00	
J. S. Kitching	217 85	
Miss H. C. Plummer (paid also by Connaught Laboratories)	500 00	
R. Hare (paid also by Connaught Laboratories)	300 00	
E. B. Struthers, Special Instructor (Sessional)	100 00	
Fellows (Easter Term):		
L. Laberge	500 00	
R. J. Wilson	500 00	
Class Assistants (Sessional):		
Miss M. E. Collins	720 00	
Miss E. M. Parr	720 00	
A. J. Bishop, Technician (paid also by Connaught Laboratories)	300 00	
Miss E. Barr, Secretarial Assistant	1.150 00	
		$15,445 35

Medicine and Clinical Medicine

Duncan Graham, Professor	10,000 00
Assistant Professors:	
Part-time:	
H. K. Detweiler	300 00
G. W. Howland (paid also $10 for Post Graduate Courses and $60 for Extension Work)	300 00
J. D. Loudon	300 00
J. A. Oille (paid also $82 for Post Graduate Courses and $20 in Health Service)	300 00
E. J. Trow (in charge of Dermatology)	300 00
R. F. Farquharson @ $3,000, of which $1,000 charged to Therapeutics	2,000 00
W. F. McPhedran (half time)	500 00
Associates:	
W. R. Campbell	2.500 00
Part-time:	
R. G. Armour (paid also $10 in Health Service and $40 for Extension Work)	250 00
J. H. Elliott (paid also $700 as Professor of History of Medicine; $40 in School of Nursing, and $30 for Extension Work)	250 00
A. A. Fletcher (paid also $10 for Post Graduate Courses and $20 for Extension Work)	250 00
Beverley Hannah (paid also $210 in School of Nursing and by Connaught Laboratories)	250 00
J. Hepburn (paid also $91 for Post Graduate Courses)	250 00
A. G. McPhedran (paid also $200 in Health Service)	250 00
H. C. Parsons	250 00
F. W. Rolph	250 00
T. Owen (half time)	500 00
Senior Demonstrators (Sessional):	
Part-time:	
Gordon Bates (paid also $20 in School of Nursing)	200 00
G. F. Boyer	200 00
A. H. W. Caulfeild (paid also $10 in Health Service)	200 00
E. E. Cleaver	200 00
H. A. Dixon	200 00
A. J. McKenzie	200 00
J. H. McPhedran	200 00
W. E. Ogden	200 00
Half-time:	
W. P. Warner	1.000 00
G. W. Lougheed	500 00
Junior Demonstrators (Sessional):	
Part-time:	
E. F. Brooks	150 00
E. A. Broughton	150 00
W. Hurst Brown	150 00
J. Gilbert Falconer (paid also $50 for Extension Work)	150 00
A. G. Hagerman	150 00
F. C. Hamilton (paid also $55 for Post Graduate Courses)	150 00
Lawrence M. Murray	150 00
D'Arcy J. Prendergast	150 00

Half-time:		
H. H. Hyland (paid also $10 for Post Graduate Courses)	1.000 00	
Ian Macdonald	1.000 00	
N. M. Wrong	1.000 00	
E. J. Maltby	1,000 00	
Harris M. Gray, Clinical Microscopy	250 00	
Full-time:		
R. A. Cleghorn	3.000 00	
J. A. Dauphinee, also Senior Demonstrator, Clinical Microscopy	2.500 00	
H. E. Rykert (paid also $92 for Post Graduate Courses)	2.500 00	
J. W. Graham	1.800 00	
Fellows (Sessional):		
C. W. J. Armstrong (paid also $900 in Biology—resigned 31 August)	166 66	
D. C. Austen (vice C. W. J. Armstrong)	810 00	
F. C. Heal	1.000 00	
R. C. Dickson (paid $1.000 from Special Fund)	....	
Research Assistants:		
Miss M. I. Hanna	1.380 00	
N. W. Simmons	1.200 00	
Miss S. H. Clutton, Secretarial Assistant	1,440 00	
Miss B. M. Calvin, Assistant Secretary	385 00	
Miss N. R. Hearn, Technician, Applied Physiology	1.320 00	
R. H. Wilson, Laboratory Attendant	500 00	
		$45.551 66

Paediatrics

Alan Brown, Professor—part time (paid also $160 in School of Nursing)	$350 00	
Associates:		
F. F. Tisdall, also Director of Paediatric Research Laboratories	2.000 00	
Part-time:		
A. W. Canfield	250 00	
E. A. Morgan	250 00	
G. R. Pirie	250 00	
Senior Demonstrators (Sessional):		
T. G. H. Drake	2.000 00	
Part-time:		
Gladys L. Boyd	500 00	
A. P. Hart	200 00	
G. E. Smith	200 00	
Junior Demonstrators (Sessional):		
Pearl Summerfeldt	500 00	
Part-time:		
L. N. Silverthorne (paid also by Connaught Laboratories)	300 00	
C. E. Snelling	300 00	
W. A. Hawke	200 00	
J. R. Ross	200 00	
W. W. Barraclough	150 00	
J. D. Griffin (without salary)	....	
E. Chant Robertson, Research Fellow (Sessional — part time; paid also $200 for Extension Work)	200 00	
S. H. Jackson, Research Assistant (Sessional — part time)	200 00	
Technicians (part time):		
Miss M. E. Doyle	200 00	
Miss E. McNamara	200 00	
Miss R. M. Herbert	200 00	
Miss M. L. Cassidy, Secretarial Assistant (part time)	500 00	
		$9.150 00

Surgery and Clinical Surgery

W. E. Gallie, Professor (paid also as Dean)	$10.000 00
Assistant Professors:	
W. W. Jones	300 00
T. A. J. Duff (paid also $25 for Post Graduate Courses)	300 00
R. R. Graham	300 00
K. G. McKenzie (paid also $15 for Post Graduate Courses)	300 00
R. Pearse	300 00
D. E. Robertson (paid also $20 in School of Nursing; $20 in Health Service, and $25 for Post Graduate Courses)	300 00
N. S. Shenstone	300 00
G. E. Wilson (paid also $25 for Post Graduate Courses)	300 00
E. S. Ryerson (see also Administration)	....

Associates:		
R. E. Gaby	250 00	
R. I. Harris (paid also $250 for Post Graduate Courses)	250 00	
A. B. LeMesurier (paid also $25 for Post Graduate Courses)	250 00	
T. A. Robinson (paid also $15 for Post Graduate Courses)	250 00	
J. W. Ross	250 00	
H. W. Wookey	250 00	
Senior Demonstrators (Sessional):		
G. S. Foulds	200 00	
C. W. Harris (paid also $25 for Post Graduate Courses)	200 00	
R. M. Janes	200 00	
J. C. McCelland	200 00	
R. J. A. McComb	200 00	
J. L. McDonald (paid also $10 in School of Nursing; $25 for Post Graduate Courses, and $40 for Extension Work)	200 00	
C. B. Parker	200 00	
S. Reid	200 00	
R. H. Thomas (paid also $35 for Post Graduate Courses and $200 in Health Service)	200 00	
Junior Demonstrators (Sessional):		
H. G. Armstrong (paid also $25 for Post Graduate Courses)	150 00	
J. W. Brennan	150 00	
W. G. Carscadden (paid also $25 for Post Graduate Courses)	150 00	
J. H. Couch	150 00	
C. Crompton	150 00	
J. T. Danis (paid also $25 for Post Graduate Courses)	150 00	
A. W. Farmer (paid also $10 in School of Nursing)	150 00	
F. I. Lewis (paid also $70 for Post Graduate Courses and $20 for Extension Work)	150 00	
J. A. McFarlane (paid also $25 for Post Graduate Courses and $200 in Health Service)	150 00	
D. R. Mitchell	150 00	
D. W. G. Murray (paid also $25 for Post Graduate Courses)	150 00	
D. W. Pratt (paid also $25 for Post Graduate Courses)	150 00	
E. E. Shouldice	150 00	
R. M. Wansbrough (paid also $10 in School of Nursing)	150 00	
C. H. Watson	150 00	
A. W. M. White	150 00	
Fellows (part time):		
F. C. Kergin	1,800 00	
R. C. Laird (paid also $25 for Post Graduate Courses)	1,500 00	
E. H. Botterell (see also Physiology)	1,500 00	
W. K. Welsh	900 00	
W. S. Keith (paid also $40 for Post Graduate Courses)	720 00	
S. D. Gordon (paid also $70 for Post Graduate Courses)	600 00	
Fellows (Resident — Sessional):		
W. D. Smith (paid also $10 for Post Graduate Courses)	400 00	
B. W. Stevens	400 00	
S. A. Thomson (paid also $25 for Post Graduate Courses)	400 00	
Assistant Fellows (Resident — Sessional):		
W. S. Anderson (resigned 1 May)	262 50	
F. L. Shipp (vice W. S. Anderson)	75 00	
Jessie Gray	300 00	
A. D. McLachlin	300 00	
J. R. F. Mills	300 00	
T. S. Perrett	300 00	
J. F. Roberts	300 00	
T. M. Steele	300 00	
F. H. Wigmore	300 00	
G. F. Pringle, Laboratory Technician	1,080 00	
Miss T. W. MacLaren, Secretary	1,440 00	
		$31,277 50

Obstetrics and Gynaecology

William A. Scott, Professor	$5,000 00
Assistant Professors:	
N. D. Frawley	300 00
H. B. VanWyck (paid also $115 in School of Nursing)	300 00
R. W. Wesley	300 00
J. A. Kinnear. Associate, Obstetrics	250 00

Senior Demonstrators (Sessional):		
W. G. Cosbie	200 00	
W. W. Lailey	200 00	
D. M. Low	200 00	
S. J. N. Magwood (paid also $100 in Health Service)	200 00	
Junior Demonstrators (Sessional):		
L. T. Armstrong	150 00	
W. A. Dafoe	150 00	
J. C. Goodwin	150 00	
H. W. Johnston	150 00	
John Mann	150 00	
H. K. Manning	150 00	
W. T. Noonan	150 00	
F. J. O'Leary	150 00	
G. L. Watt	150 00	
W. H. Murby (without salary)	....	
A. D. T. Purdy (without salary)	....	
Fellows:		
J. R. McArthur	1,500 00	
D. N. Henderson	1,000 00	
Miss M. Bonham, Laboratory Technician	1,100 00	
Miss H. Carson, Secretary	900 00	
		$12,800 00

Ophthalmology

W. H. Lowry, Professor	$700 00	
Associates:		
F. A. Aylesworth	200 00	
C. E. Hill	200 00	
Mortimer Lyon	200 00	
W. W. Wright	200 00	
A. E. MacDonald (part time)	1,200 00	
Assistants (Sessional):		
J. F. A. Johnston	800 00	
L. J. Sebert (without salary)	....	
Junior Demonstrators (Sessional):		
H. M. Macrae	200 00	
A. L. Morgan	200 00	
Miss Mary Gray, Secretarial Assistant, @ $1,000, of which half charged to Oto-Laryngology	500 00	
		$4,400 00

Oto-Laryngology

Perry Goldsmith, Professor	$700 00	
G. M. Biggs, Associate Professor	350 00	
A. A. Campbell, Associate	250 00	
Senior Demonstrators (Sessional):		
C. A. Rae	200 00	
D. E. S. Wishart	200 00	
A. H. Veitch (without salary)	....	
Junior Demonstrators (Sessional):		
H. W. D. McCart	150 00	
Gregor McGregor	150 00	
Angus M. McLeod	150 00	
C. E. Snell	150 00	
W. B. Stark	150 00	
J. G. Strachan	150 00	
J. A. Sullivan	150 00	
P. E. Ireland (full time)	1,900 00	
H. H. Burnham, Senior Demonstrator (Sessional)	700 00	
Miss Mary Gray, Technician (see also Ophthalmology)	500 00	
		$5,850 00

Therapeutics

R. F. Farquharson, Assistant Professor (see also Department of Medicine)	$1,000 00
H. J. Shields, Associate in charge of Anaesthesia	250 00
W. J. Gardiner, Associate in charge of Physical Therapy	250 00
C. E. Cooper Cole, Senior Demonstrator, Therapeutics (Sessional)	200 00

Junior Demonstrators, Anaesthesia (Sessional):		
W. Easson Brown	150 00	
S. M. Campbell	150 00	
S. J. Evelyn	150 00	
K. E. Hollis	150 00	
C. H. Robson	150 00	
Assistants, Anaesthesia (without salary):		
G. R. Balfour	....	
C. G. Bryan	....	
N. S. Clark	....	
R. Hargrave	....	
K. M. Heard	....	
A. R. Wilkins	....	
Assistants, Therapeutics (Sessional):		
Irwin Hilliard	50 00	
A. M. Large	50 00	
N. B. McGillivray	50 00	
A. H. Squires, Research Fellow, 8 mos	800 00	
		$3.400 00

Psychiatry

C. B. Farrar, Professor (paid also $15 for Post Graduate Courses and $100 in Health Service)	$5.000 00	
E. P. Lewis, Assistant Professor	1,900 00	
Demonstrators (Sessional):		
G. W. Anderson	150 00	
Ruth M. Franks (paid also $200 for Extension Work)	150 00	
Mary V. Jackson	150 00	
B. T. McGhie	150 00	
C. G. Stogdill	150 00	
C. H. McCulaig (without salary)	....	
S. G. Chalk, Junior Demonstrator (Sessional)	150 00	
Fellows (Sessional):		
K. G. Gray, Forensic Psychiatry (without salary)	....	
J. A. Hannah, Neuropathology (without salary)	....	
Miss A. F. Abbott, Secretarial Assistant (without salary)	....	
		$7.800 00

Medical Jurisprudence

Lecturers (Sessional):		
K. G. Gray (see also Psychiatry)	125 00	
W. L. Robinson (see also Pathology and Bacteriology	125 00	
		$250 00

Radiology

G. E. Richards, Professor	250 00	
A. C. Singleton, Associate	250 00	
Senior Demonstrators (Sessional):		
M. R. Hall	200 00	
A. H. Rolph	200 00	
A. W. Blair, Junior Demonstrator (Sessional)	100 00	
J. Somers, Assistant (Sessional — part time)	500 00	
		$1.500 00

Research Professor

Sir Frederick Banting (paid $5,000 in Special Research)	....	
		....

Special Lectures

Professor J. H. Elliott, History of Medicine (see also Department of Medicine and School of Nursing)	$700 00	
Special Lecturers (Sessional):		
E. J. Pratt, English (paid also $360 in Dentistry and $30 in Ontario College of Education)	400 00	
D. M. Tanner, Dentistry (see also Faculty of Dentistry)	100 00	
Science and Civilization:		
A. F. Coventry (paid in Biology)	....	
H. Wasteneys (paid in Bio-Chemistry) without	....	
J. G. Falconer, Life Insurance salary	....	
G. S. Young, Medical Ethics and Economics	....	
		$1,200 00
		$349,863 35

Less charged to:			
Rockefeller Fund	$49.906 10		
Eaton Endowment	29.201 66		
		$79.107 76	
			$270,755 59

56a. Post Graduate Courses

Cardio-vascular disease ($398.25):		
Honoraria to Instructors:		
Duncan Graham	$27 00	
F. C. Hamilton	55 00	
J. Hepburn	91 00	
J. A. Oille	82 00	
H. E. Rykert	82 00	
Sundry expenses:		
Hart House, dinner to class	30 75	
Toronto General Hospital, meals and supplies	30 50	
Fractures ($916.87):		
Honoraria to Instructors:		
H. G. Armstrong	25 00	
W. G. Carscadden	25 00	
R. Chenoweth	10 00	
J. T. Danis	25 00	
T. A. J. Duff	25 00	
W. E. Gallie	50 00	
S. D. Gordon	70 00	
Chas. W. Harris	25 00	
R. I. Harris	25 00	
W. S. Keith	25 00	
R. C. Laird	25 00	
A. B. LeMesurier	25 00	
F. J. Lewis	70 00	
J. L. McDonald	25 00	
J. A. MacFarlane	25 00	
K. G. McKenzie	15 00	
D. W. G. Murray	25 00	
D. W. Pratt	25 00	
D. E. Robertson	25 00	
T. A. Robinson	15 00	
W. D. Smith	10 00	
R. H. Thomas	25 00	
Stuart A. Thomson	25 00	
G. E. Wilson	25 00	
Sundry expenses:		
W. E. Gallie, gratuities to assistants	70 00	
St. Michael's Hospital, meals and supplies	51 57	
Hospital for Sick Children, meals and supplies	25 46	
Toronto General Hospital, meals and supplies	78 44	
Toronto Western Hospital, meals and supplies	26 40	
Physical Therapy ($371.40):		
Honoraria to Instructors:		
C. B. Farrar	15 00	
A. A. Fletcher	10 00	
W. J. Gardiner	240 00	
G. W. Howland	10 00	
H. H. Hyland	10 00	
W. S. Keith	15 00	
E. S. Ryerson	10 00	
H. E. Rykert	10 00	
R. H. Thomas	10 00	
Sundry expenses:		
Hart House, dinner to class	30 00	
Toronto General Hospital, meals and supplies	11 40	
		$1.686 52

57. Anatomy

Anatomical material ($2,831.89):		
Bates & Dodds	$30 00	
E. E. Bolton	390 00	
Brampton Funeral Service	36 75	
Canada Packers	14 08	
Canadian Industrial Alcohol Co.	88 75	
Connaught Laboratories	13 30	
E. Cullen	12 80	
Eric Glaesner	128 00	
Gordon, MacKay Co.	33 35	
C. Hunt	70 00	
Ingram & Bell	313 45	
Lever Bros.	101 22	
Mallinckrodt Chemical Works	44 55	
F. W. Matthews Co.	930 39	
H. R. Ranks	30 00	
Riverdale Lumber Co.	32 83	
Roadhouse & Ross	36 75	
S. Rogers	85 00	
W. M. Speers	30 00	
Accounts under $10 (3)	11 46	
Prof. J. C. B. Grant, models	75 50	
Superintendent's Dept., labour, $142.78; material, $180.93	323 71	
General equipment and incidentals ($2,836.79):		
Aikenhead Hardware Ltd., hardware	65 24	
Allen Mfg. Co., laundry	141 78	
Art Metropole, drawing paper, etc.	21 22	
Bausch & Lomb Optical Co., balopticon, etc.	73 01	
Dr. Brock Brown, illustrations for book by Prof. Grant	105 00	
Carnegie Institution of Washington, film	39 23	
Walter A. Carveth, strops, etc.	13 25	
Central Scientific Co., glassware	50 10	
Cine Laboratory Inc., films	40 89	
Corbett-Cowley Ltd., laboratory coats	62 06	
Dennison Mfg. Co., labels, etc.	12 80	
Gevaert Co., films, plates, etc.	167 21	
Gordon MacKay & Co.	27 80	
Grand & Toy, chairs, guides and cards	47 25	
J. F. Hartz Co., pencils, tubing, etc.	11 35	
Imperial Oil Co., oil	15 85	
Ingram & Bell, chemicals, glassware, etc.	114 98	
Journal of Bone & Joint Surgery, cuts for reprints	10 72	
H. E. LeMasurier, honorarium for work in connection with X-Rays of students	125 00	
H. K. Lewis & Co., text books	15 70	
Mallinckrodt Chemical Works, chemicals	36 37	
Mrs. J. Pattie, statistical calculating	23 41	
Postage	44 57	
Ralston Purina Co., feed	297 54	
J. Frank Raw Co., drawing paper	26 00	
Riverdale Lumber Co., lumber	34 70	
Robbins & Towsend, typewriter inspection	37 20	
Stephens Sales Ltd., ink	10 20	
Victor X-Ray Corporation, fluoroscopic screen, installing X-Ray control board, etc.	275 09	
Wistar Institute of Anatomy & Biology, subscriptions	40 63	
University Press, printing and stationery	314 31	
Accounts under $10 (28)	138 27	
Sundry disbursements by department:		
Hardware, $27.86; medical supplies, $38.06; telegrams, stationery, etc., $19.35; food supplies and sundries, $33.76	119 03	
Superintendent's Dept., freight, $19.57; labour, $74.01; material, $185.45	279 03	
	$5,663 68	
Less credits: X-Ray fees, $254; sale of material, $48.03; laboratory deposits, $31.25	333 28	
		$5,335 40

58. PATHOLOGY AND BACTERIOLOGY

Supplies and apparatus ($5,399.87):	
John Allen, meat	79 45
American Medical Association, reprints	23 81
W. T. Avery, Ltd., overhauling scale	19 11
Bassani Processes Ltd., photography outfit	20 79
Bausch & Lomb Optical Co., balopticon and lamp	128 14
British Journal of Surgery, text books	37 60
Canadian Laboratory Supplies, covers	10 78
Walter A. Carveth, projector lens, screens, etc	1,241 75
Central Scientific Co., comparator, slides, trays, etc	92 81
Diamond Cleanser & Soaps Ltd., soap	39 80
Eastman Photographic Stores, chemicals, paper, etc	253 71
T. Eaton Co., crocks, draw cords, etc	21 19
Extension Print, reprints	15 12
General Motors Sales Corporation, frigidaire service	23 94
Gevaert Co., plates	66 48
J. F. Hartz Co., chemicals and glassware	321 69
Hind & Dausch Paper Co., paper	22 41
Hoffman & La Roche Ltd., chemicals	15 19
Ingram and Bell, chemicals, slides and glassware	770 86
Kilgours, Ltd., paper	11 85
Lea & Febiger, reprints	67 72
Liquid Carbonic Canadian Corporation	12 00
Donald McLean, towelling	22 43
Medical Research Dept., animals	127 45
David Meller, meat	23 84
Mimeograph Co., stencil paper	12 28
Munson Supply Co., speed keys	11 00
Postage	66 00
Robbins & Townsend, typewriters, $175; less allowance on old machine, $27.50; typewriter inspection, etc., $74	221 50
Stephens Sales Ltd., manuals and class notes	332 35
Toronto General Hospital, laundry	218 11
University Press, printing and stationery	439 01
Accounts under $10 (25)	112 80
Sundry disbursements by department:	
Stationery, etc., $31.52; hardware, $35.33; food supplies, $15.14; sundries, $33.01	115 00
Superintendent's Dept., freight, $7.81; labour, $209.20; material, $184.89	401 90
Museum supplies ($1,733.05):	
British Xylonite Co., bexoid	47 04
Grand & Toy, index strips	14 00
J. F. Hartz Co., chemicals	168 65
Ingram & Bell, chemicals and glassware	150 66
Queen City Glass Co., plates	219 00
Accounts under $10 (4)	17 32
Superintendent's Dept., labour, $816.15; material, $300.23	1,116 38
Clerical assistance:	
Mrs. M. Walkden, 3 mos	225 00
Neuropathology:	
Supplies and apparatus ($1,001.75):	
Allen Mfg. Co., laundry	57 82
Art Metropole	25 50
Central Scientific Co., microtone	253 24
Corbett-Cowley Ltd., laboratory coats	31 33
Dictaphone Sales Corporation, electrical shaver, $106.19; typewriter inspection, $12.50	118 69
J. F. Hartz Co., chemicals, gloves, etc	149 78
Ingram & Bell, chemicals, etc	58 83
Liquid Carbonic Corporation, gas	72 00
Office Specialty Mfg. Co., cabinet	54 00
Postage	21 00
Robbins & Townsend, typewriter inspection	13 20
H. V. Spence, microtome repairs	20 00
University Press, printing and stationery	55 19
Accounts under $10 (6)	24 62

Superintendent's Dept., freight, .04c; labour. $8.70; material. $37.81	46 55	
	$8.359 67	
Less credits: Laboratory deposits, $284.24; sale of material. $97.74	381 98	
		$7.977 69

59. PATHOLOGICAL CHEMISTRY

Supplies and apparatus:		
Allen Mfg. Co., laundry	$105 01	
American Type Culture Collection, cultures	14 81	
British Drug Houses, chemicals	294 12	
Canadian Laboratory Supplies, glassware	121 05	
Central Scientific Co., chemicals and glassware, etc	656 06	
R. H. Chappell, glassblowing	63 00	
Dewey & Almy Chemical Co., soda	40 80	
Dominion Glass Co., glassware	69 52	
T. Eaton Co., cheesecloth	30 75	
A. Gallenkamp, thermometers and glassware	93 66	
General Motors Sales Corporation, frigidaire service	19 19	
Grand & Toy, desk and chairs	78 40	
Lowe-Martin Co., file	22 25	
Medical Research Dept., animals	35 50	
Office Specialty Mfg. Co., cabinets	19 50	
Photographic Service, slides	16 60	
Robbins & Townsend, typewriter inspection	10 60	
Roneo Co., stencil paper, ink, etc	12 58	
University Press, printing and stationery	88 30	
Accounts under $10 (16)	77 92	
Sundry disbursements by department:		
Stationery and postage, $29.14; food supplies, $19.45; sundries, $26.41	75 00	
Superintendent's Dept., freight, $2.29; labour, $106.28; material, $154.26	262 83	
	$2.207 45	
Less credits: Laboratory deposits, $62.85; sale of instruction sheets, etc., $69.66	132 51	
		$2.074 94

60. PHARMACY AND PHARMACOLOGY

Supplies ($1,923.06):		
Aikenhead Hardware Ltd., hardware	$52 72	
Bakelite Corporation, bakelite	30 00	
B. F. Breux, frogs	60 00	
Allan Brock, animals	303 70	
Canadian Kodak Co., chemicals	26 72	
Canadian Laboratory Supplies, chemicals, glassware, etc	250 14	
T. Eaton Co., chair, etc	18 83	
Electric Specialty Co., motors	25 80	
Kenneth A. Evelyn, filters	30 00	
Grand & Toy, desk and chair	57 50	
Harvard Apparatus Co., clamps and clips	11 10	
F. W. Humphrey Co., fish	32 00	
Ingram & Bell, chemicals, instruments, etc	34 84	
Kelvinator of Canada, cooling tank rebuilt	45 50	
John McGillian, carrots	12 60	
National Drug & Chemical Co., chemicals, etc	169 11	
Ontario Rubber Co., tubing	40 82	
Photographic Service, slides and prints	13 55	
Queen City Dental Mfg. Co., oxygen	45 00	
Renold-Coventry Ltd., wire	10 43	
Ralston Purina Co., feed	61 75	
Richards Glass Co., glassware	10 80	
Riseborough & Jackson, feed	12 20	
Rubicon & Co., filter	15 45	
Scientific Glass Apparatus Co., thermometer	11 34	
Taber Laundry Works	15 06	
Underwood-Elliott-Fisher Ltd., overhauling typewriter	20 37	
Vail's Laundry	37 44	

Waverley Press, reprints	27 27	
Wilson Scientific Co., glassware	15 44	
University Press, printing and stationery	67 04	
Accounts under $10 (8)	39 68	
Sundry disbursements by department:		
Food supplies, $11.34; hardware, $4.07; sundries, $6.59	22 00	
Superintendent's Dept., freight, $18.25; labour, $129.75; material, $138.86	286 86	
Apparatus ($374.27):		
Bausch & Lomb Optical Co., petrographic microscope	274 08	
B. H. R. Smith, electric pulse recorder	100 19	
		$2,297 33

61. Bio-Chemistry (including Zymology)

Supplies and apparatus:		
Acme-Farmers' Dairy	$79 22	
Aikenhead Hardware Ltd., hardware	95 79	
Allen Mfg. Co., laundry	36 54	
Annual Review of Bio-Chemistry, reprints	27 53	
J. Blood, meat, vegetables, etc.	141 70	
Bordon Co., milk powder	60 03	
British Drug Houses, chemicals	158 46	
Canada Packers Ltd., meat	276 70	
Canadian General Electric Co., wire and units	14 72	
Canadian Industries Ltd., chemicals	47 90	
Canadian Kodak Co., ether	32 77	
Canadian Laboratory Supplies, chemicals, glassware, etc.	930 84	
Canadian Liquid Air Co., gas and rental of cylinders	86 72	
Canadian Shredded Wheat Co., feed	20 65	
Central Scientific Co., pump, glassware, etc.	328 22	
R. H. Chappell, glassblowing	209 15	
Corbett-Cowley Ltd., laboratory coats	64 24	
Corning Glass Works, burettes	20 28	
T. Eaton Co., batting, etc.	25 56	
J. F. Hartz Co., needles, catgut, etc.	42 05	
Johnson, Matthey & Co., forceps, crucibles, etc.	12 49	
Journal of Biological Chemistry, subscription and reprints	19 78	
Kennedy Mfg. Co., chemicals	95 79	
Mead, Johnson & Co., cod liver oil and yeast	38 47	
Merck & Co., chemicals	261 51	
National Electric Tool Co., speed reducer	10 10	
Nichols Chemical Co., acids	24 58	
Photographic Service, blue-prints and slides	16 65	
Quinte Milk Products, casein	33 66	
Rubicon & Co., micro-colorimeter and filters	336 80	
Dr. I. A. Schoeller, chemical analyses	58 54	
L. Sloan, motor transportation	17 25	
Stephens Sales Ltd., ink and stencils	15 30	
Toronto Elevator Co., feed	82 53	
Wholesale Radio Co., radio parts	42 93	
University Press, printing and stationery	110 03	
Accounts under $10 (21)	100 76	
Sundry disbursements by department:		
Animals, $85; collecting expenses, $54.70; food supplies, $16.01; postage, $25; telegrams, etc., $8.35; sundries, $19.52	208 58	
Superintendent's Dept., freight, $56.91; labour, $158.89; material, $529.06	744 86	
	$4,929 68	
Less credits: Laboratory deposits, $281.90; sale of material, $48.77; material returned, $8	338 67	
		$4,591 01

62. Physiology

Supplies:		
Acme-Farmers' Dairy, milk	$162 76	
John Bale, Sons & Curnow, reprints	41 65	
Bio-Chemistry Dept., disinfectant	48 37	
F. J. Burns & Co., turtles	22 87	
Cambridge, University Press, reprints	15 18	
Canada Packers Ltd., meat	118 31	

Canadian Fairbank-Morse Co.. hardware	206 44	
Canadian Kodak Co.. chemicals	36 72	
Canadian Liquid Air Co., gas and rental of cylinders	34 12	
Central Scientific Co., chemicals, glassware. etc	349 49	
Joseph Cooper Ltd., meats	200 73	
E. Cullen, animals	102 50	
Eastman Photographic Stores, acids and paper	20 38	
T. Eaton Co., gauze, laboratory coats, towelling, etc	322 27	
General Motors Sales Corporation, frigidaire service	23 62	
J. F. Hartz Co., needles, etc	22 05	
Ingram & Bell, chemicals, instruments, catgut, etc	285 99	
Frank Jennings, sawdust	12 00	
Johnson, Matthey & Co.. chemicals, etc	34 70	
Kelley Feed & Seed Co., feed	120 06	
Langley, Harris Co., dog biscuits	218 37	
Mallinckrodt Chemical Works, ether	76 53	
New Standard Foundry, castings	22 69	
Nichols Chemical Co., acid	25 65	
Paquin Camera Exchange. bellows	10 00	
Photographic Service, slides	15 95	
Postage	35 00	
Powerlite Device Ltd., speed indicator, etc	10 05	
Rainbow Lantern Slide Co., slides	18 35	
Robbins & Townsend, typewriter inspection	10 80	
Swift Canadian Co.. glands	16 00	
Toronto Elevators Ltd.. feed	15 11	
Walden-Jennings, sawdust	24 00	
H. F. Whittaker, slides	14 00	
A. R. Williams Machinery Co., belt	25 46	
W. Lloyd Wood Ltd., serum, etc	14 66	
University Press, printing and stationery	141 87	
Accounts under $10 (29)	145 02	
Sundry disbursements by department:		
Laundry, $298.61; postage, telegrams, etc., $25.65; hardware, $25.42; food supplies, $18.29; sundries, $22.03	390 00	
Superintendent's Dept., freight, $85.08; labour, $36.60; material, $288.26	409 94	
	$3,819 66	
Less credits: Charged to School of Nursing, $200; laboratory deposits. $23.70; material returned, $2.08	225 78	
		$3,593 88

63. HYGIENE AND PREVENTIVE MEDICINE

Supplies and apparatus ($2,923.27):		
Art Metropole, micrometers, etc	$62 87	
Canadian Office and School Furniture Ltd., stools	56 00	
Walter A. Carveth, microscope stages, repairs and clips	154 00	
Central Scientific Co., scissors, forceps, etc	64 23	
Connaught Laboratories. vaccine, glassware and maintenance of animals	1,192 87	
General Biological Supply House, slides and specimens	28 65	
Grand & Toy, shelves	39 00	
Gray Coach Lines, hire of coaches to Connaught Laboratories Farms	120 00	
J. F. Hartz Co., cover glasses	18 00	
Lockhart's Camera Exchange, film packs	11 70	
Mimeograph Co., ink, paper and stencils	81 37	
Office Specialty Mfg. Co.. filing cabinet	45 95	
Ontario Laundry Co	27 25	
Postage	16 00	
Harry H. Sparks, field-work reports	74 01	
Wilson Scientific Co., incubator	156 80	
University Press, printing and stationery	579 32	
Accounts under $10 (8)	24 68	
Sundry disbursements by department	10 00	
Superintendent's Dept., freight, $1.84; labour. $102.27; material. $56.46	160 57	
Cleaner, Mrs. Ada Hall, 223½ days	558 75	
	$3,482 02	
Less credit from laboratory deposits	104 00	
		$3.378 02

64. Medicine

Supplies and chemicals ($2.293.39):		
Academy of Medicine, reprints	$15 00	
Acme-Farmers' Dairy, milk	45 56	
Allen Mfg. Co., laundry	41 71	
Beckett & Conroy, laboratory coats	20 89	
R. F. Breux, frogs	20 00	
British Drug Houses, casein and chemicals	38 92	
Canadian Laboratory Supplies, chemicals and filter paper	95 28	
Canadian Medical Association, reprints	25 00	
Canadian Public Health Association, reprints	15 14	
T. Eaton Co., chair pads, uniforms, and food supplies	24 54	
Hoffman-La Roche Ltd., chemicals	68 80	
Ingram & Bell, chemicals, cotton, etc	147 96	
Journal of Biological Chemistry, reprints	11 27	
Journal of Medicine, reprints	31 06	
Medical Research Dept., animals and maintenance	241 00	
C. V. Mosby Co., reprints	29 43	
Nichols Chemical Co., acids	22 79	
Postage	40 12	
W. Lloyd Wood Ltd., serum	31 50	
University Press, printing and stationery	135 21	
Accounts under $10 (11)	48 25	
Sundry disbursements by department:		
Food supplies, $8.46; stationery, etc., $11.35; sundries, $10.19	30 00	
Superintendent's Dept., freight, $16.28; labour, $10; material, $87.68	113 96	
Apparatus ($676.04):		
Baker Platinum Ltd., crucibles	17 46	
Canadian Laboratory Supplies, glassware, filter paper, etc	153 72	
Central Scientific Co., cups, glassware, etc	27 32	
Eastman Photographic Stores, kodaflector, kodachrome, etc	37 22	
Harvard Apparatus Co., clamps and boards	11 38	
Ingram & Bell, slides, instruments, etc	72 37	
Klett Mfg. Co., colorimeter and plunges	153 75	
Office Specialty Co., cabinet	44 00	
C. F. Palmer Ltd., paper	15 22	
Robbins & Townsend, typewriter inspection	10 20	
Wilson Scientific Co., glassware, etc	17 68	
Accounts under $10 (7)	31 02	
Superintendent's Dept., labour, $56.61; material, $28.09	84 70	
Books and periodicals ($699.72):		
Canadian Medical Association, reprints	29 00	
J. B. Lippincott Co., book	16 00	
McAinsh & Co., book and subscription	38 25	
Thos. Nelson & Sons, renewal papers	15 17	
Photographic Service, slides and prints	27 95	
University Press, printing and stationery	565 85	
Accounts under $10 (3)	7 50	
Laboratory cleaning:		
Miss E. Bailey, 52 weeks	328 65	
(Charged to Eaton Endowment)	$2.997 80	....

65. Paediatrics

Supplies and chemicals ($999.14):	
Association International, reprints	$16 06
Bausch & Lomb Optical Co., hemoglobinometer repairs	13 23
Bordon & Co., powdered cream	12 56
British Drug Houses, chemicals	116 68
Canadian Laboratory Supplies, chemicals, filter paper, etc	220 21
Canadian Medical Association, reprints	24 50
Ditto of Canada Ltd., carbon, etc	18 37
Mead, Johnson & Co., yeast powder	31 85
C. V. Mosby Co., reprints	22 91
Postage	80 28
Quinte Milk Products, casein	80 45
Society for Experimental Biology and Medicine, reprints	12 11
Wistar Institute of Anatomy and Biology, reprints	11 91
University Press, printing and stationery	134 06
Accounts under $10 (9)	49 96

Sundry disbursements by department:		
Stationery, postage, etc., $7.39; food supplies, $6.42; sundries, $6.19	20 00	
Superintendent's Dept., freight, $19.02; material, $114.98	134 00	
Apparatus ($498.02):		
Canadian Laboratory Supplies, glassware, etc	119 94	
Central Scientific Co., glassware and crucibles	37 15	
Superintendent's Dept., labour, $200.57; material, $140.36	340 93	
	$1.497 16	
Less credit for sale of reprints	5 22	
(Charged to Eaton Endowment)	$1.491 94	....

66. SURGERY

Supplies and apparatus ($1.381.93):		
Allen Mfg. Co., laundry	$22 02	
Art Service, art material	14 90	
Beckett & Conroy, laboratory coats	10 44	
Burke Electric & X-Ray Co., remodelling apparatus	22 00	
Connaught Laboratories, reprints	14 73	
Corbett-Cowley Ltd., laboratory coats	49 10	
Dale Display Fixtures Ltd., models	13 61	
T. Eaton Co., chemicals, films, etc	42 57	
Robert D. Falconer, making instruments	199 50	
Grand & Toy, stationery	20 05	
Home Cinema Supplies Co., lighting unit	12 85	
Hospital for Sick Children, surgical supplies	25 00	
International Books Ltd., subscription	20 00	
J. B. Lippincott Co., reprints	18 51	
Lockhart's Camera Exchange	158 92	
Medical Research Dept., animals	135 50	
Mimeograph Co., paper	11 53	
C. V. Mosby Co., subscription	10 73	
Postage	50 16	
St. Michael's Hospital, surgical supplies	73 20	
Stephens Sales Ltd., stencils and paper	32 24	
Surgical Publishing Co. of Chicago, subscription	12 16	
Williams Gold Refining Co., latex	10 58	
Surgical demonstration:		
Dr. R. C. McKenzie, expenses in connection with bringing patient from Chatham	37 70	
Myers-Elliott, ambulance service	12 00	
Dr. G. E. Richards and Dr. A. C. Singleton, X-ray slides and prints	34 20	
M. J. Shepherd, caretaker's extra services	10 00	
Toronto General Hospital, instruments and expenses in connection with patient	207 90	
University Press, printing and stationery	10 05	
Accounts under $10 (9)	46 06	
Sundry disbursements by department:		
Stationery, telegrams, etc., $20.27; sundries, $14.73	35 00	
Superintendent's Dept., labour, $3.30; material, $5.42	8 72	
Museum of Applied Anatomy ($244.79):		
T. Eaton Co., films, bulbs, etc	125 10	
Lockhart's Camera Exchange, filters, plates, etc	119 69	
		$1.626 72

67. OBSTETRICS AND GYNAECOLOGY

Supplies and apparatus:		
Corbett-Cowley Ltd., laboratory coats	$17 72	
Ingram & Bell, slide boxes, etc	19 53	
Photographic Service, slides	19 80	
University Press, stationery and supplies	12 91	
Accounts under $10 (7)	31 00	
		$100 96

68. OPHTHALMOLOGY

Supplies and apparatus:		
Pathology Dept., steel shelving	$7 00	
Photographic Service, prints, etc	37 30	
Superintendent's Dept., labour, $4.50; material, $2	6 50	
		$50 80

69. OTO-LARYNGOLOGY

Supplies and apparatus:		
McAinsh & Co., text books	$12 15	
University Press, printing and stationery	21 88	
Accounts under $10 (2)	10 54	
Superintendent's Dept., labour, $28.23; material, $11.85	40 08	
		$84 65

70. THERAPEUTICS

Supplies and apparatus:		
Ayearst, McKenna & Harrison, drugs and chemicals	$88 65	
British Drug Houses, drugs	17 00	
Office Specialty Mfg. Co., coat hanger	11 50	
Photographic Service, slides and prints	13 20	
Seemor Selmor System Ltd., show case	30 00	
University Press, stationery	28 08	
Accounts under $10 (2)	2 65	
Sundry disbursements by department	10 00	
		$201 08

71. PSYCHIATRY

Supplies and apparatus:		
University Press, stationery		$5 67

72. MEDICAL JURISPRUDENCE

(Nothing spent)

73. RADIOLOGY

Supplies and apparatus:		
Seeman Laboratory, one half of cost of spectrograph (balance paid by Physics)	$402 18	
Dr. G. E. Richards and Dr. A. C. Singleton, X-ray films, plates, etc.	343 40	
Toronto General Hospital, X-ray supplies, etc.	253 82	
		$999 40

74. ART SERVICE

(a) Salaries:		
Miss M. T. Wishart, Director	$2,500 00	
Miss D. Foster, Assistant Artist	1,350 00	
(b) Expenses:		
Part time assistance ($94.50):		
Miss E. Blackstock, 121 hours	81 25	
Sundry persons (2)	13 25	
Supplies ($218.27):		
Art Metropole, brush	38 50	
Bark & Mortimer, insurance on exhibit at Royal York Hotel	10 00	
University Press, stationery	14 47	
Accounts under $10 (7)	30 42	
Sundry disbursements by department:		
Laundry, $10.01; stationery and art supplies, $26.65; sundries, $12.34	49 00	
Superintendent's Dept., freight, $1.75; labour, $4.10; material, $70.03	75 88	
	$4,162 77	
Less sundry credits	24 60	
		$4,138 17

75. GENERAL EXPENSES

Sundry expenses of the Dean:		
Luncheons, teas and dinners in connection with visiting lecturers, etc.	$183 80	
Office supplies, stationery, printing, etc. $2,823.96):		
Association of American Medical Colleges, aptitude tests	145 24	
"Globe and Mail," subscription	12 00	
Lowe Martin Co., cards	41 58	
Office Specialty Mfg. Co., cabinet, stool and file	97 70	
Photographic Service, prints, slides and lantern service	85 60	
Postage	426 40	
Geo. G. Renneker Co., reprints	41 23	
Robbins & Townsend, typewriter inspection	33 05	
Simmons & Sons, funeral wreaths	20 00	
Underwood-Elliott-Fisher Ltd., copy holder and typewriter stand, etc.	68 25	

Window Shades & Fittings, shades	45 36	
University Press, printing and stationery	1,291 51	
Accounts under $10 (18)	63 28	
Sundry disbursements by Secretary:		
Carefare and postage, $9.42; telegrams, etc., $14.75; sundries, $10.83	35 00	
Superintendent's Dept., freight, $2.32; labour, $23.57; material, $21.04	46 93	
Clerical assistance:		
Miss D. Waugh, 8 weeks, 4 days (paid also $95 from Medical Research)	216 65	
Mrs. T. P. Lloyd	3 50	
H. McClary, messenger service, 2 weeks	20 00	
Lockers for students:		
Denisteel Corporation	130 68	
Publications, Calendar, Dean's Report, Medical Bulletin, Lister Lecture ($670.51):		
Postage	102 54	
University Press, printing and stationery	567 97	
Maintenance and equipment of Lecture Theatre ($97.40):		
Art Metropole, balopticon	43 74	
Bausch & Lomb Optical Co.	1 47	
Office Specialty Mfg. Co., lockers	13 90	
Superintendent's Dept., labour, $16.07; material, $22.22	38 29	
Medals ($43.52):		
Birks, Ellis, Ryrie Ltd., engraving	6 93	
John Pinches, medals	36 59	
Association of American Colleges:		
Membership fees	150 00	
Alterations to Secretary's Office:		
Superintendent's Dept., labour, $224.60; material, $275.40	500 00	
		$4,469 19

76. Medical Building

Heat and light		$4,434 40	
Gas, water and occasional fuel ($1,517.79):			
Gas, $629.28; water, $826.72		1,456 00	
Central Coal Co.		29 25	
Conger Lehigh Coal Co.		32 04	
Superintendent's Dept., labour		50	
Caretaker's supplies:			
Superintendent's Dept., material		126 44	
Cleaning ($1,997.70):			
Advance Window Cleaning Co.		$49 00	
Allen Mfg. Co., laundry		21 12	
Superintendent's Dept., labour		1.927 58	
Repairs and renewals ($2,839.34):			
Italian Mosaic & Tile Co., tiling		21 08	
Kennedy Mfg. Co., sprayer		127 47	
Routery Bros., plaster repairs		28 00	
Accounts under $10 (5)		26 57	
Superintendent's Dept., labour, $1,818.87; material, $817.35		2.636 22	
Caretaker, F. P. Mottram, 12 mos. (and overtime $3)		1,400 00	
		$12,315 67	
Less heat and light charged to Central Power Plant	4.434 40		
Credit for cleaning	34 00		
		4.468 40	
			$7.847 27

77. Banting Institute

Heat, Dept. of Public Works, Province of Ontario	$6.000 00
Gas, $974.54; electric current, $4.324.28; water, $591.53	5.890 35
Caretaker's supplies ($569.54):	
Electrolux Ltd., machine and parts	78 17
Superintendent's Dept., material	491 37
Cleaning ($5,427.40):	
Advance Window Cleaning Co.	63 70
Allen Mfg. Co., laundry	60 12
Superintendent's Dept., labour	5.303 58

Repairs and renewals ($3.135.38):			
City Treasurer. elevator license		15 00	
Compressed Air Equipment Ltd.. rental		20 62	
Robt. Simpson Co., curtain		15 20	
Accounts under $10 (2)		10 19	
Superintendent's Dept.. labour. $2.031.20; material. $1,043.17		3.074 37	
Caretaker. H. L. Vickery. 12 mos		1,500 00	
		$22,522 67	
Less credit for cleaning. etc		88 35	
			$22.434 32

78. ANATOMICAL BUILDING

Heat and light		$2.373 54	
Gas. $20.48; water. $37.14		57 62	
Caretaker's supplies:			
Superintendent's Dept., material		258 67	
Cleaning ($1.876.12):			
Advance Window Cleaning Co		34 30	
Allen Mfg. Co., laundry		21 84	
Superintendent's Dept.. labour		1.819 98	
Repairs and renewals ($534.75):			
Wm. Bartlett & Son, shades		13 69	
City Treasurer. elevator license		10 00	
Johnson Temperature Regulating Co.. repairs to heating system		15 98	
Roofers' Supply Co.. blackboards		10 31	
Superintendent's Dept., labour. $356.34; material. $128.43		484 77	
Caretaker. M. J. Shepherd. 12 mos. (paid also $10 in Surgery Dept.)		1.400 00	
		$6,500 70	
Less heat and light charged to Central Power Plant	$2.373 54		
Credit for cleaning	5 00		
		2.378 54	
			$4.122 16

79. HYGIENE BUILDING

Heat and light		$14.288 43	
Gas. $1.299.23; water. $2.614.46		3.913 69	
Caretaker's supplies:			
Superintendent's Dept., material		766 84	
Cleaning ($7.790.69):			
Advance Window Cleaning Co		63 70	
Allen Mfg. Co.. laundry		72 48	
Superintendent's Dept.. labour		7,654 51	
Repairs and renewals ($2.311.18):			
Wm. Barlett & Son. shades repaired		11 50	
City Treasurer. elevator license		20 00	
Italian Mosaic & Tile Co., tiling		1 03	
Johnson Temperature Regulating Co.. repairs to heating system		44 28	
Routery Bros., plaster repairs		49 55	
Superintendent's Dept., labour, $1,716.01; material, $468.81		2.184 82	
Caretaker, James Irwin, 12 mos. (and overtime $1)		1.400 00	
		$30.470 83	
Less heat and light charged to Central Power Plant	$14.288 43		
Credits for cleaning, and for share of gas, water and electric current, etc	6.126 70		
		20.415 13	
			$10.055 70

Charged to Revenue. 1937-38	$357.826 47
Charged to Eaton and Rockefeller Funds	83.597 50
	$441.423 97

VIII. SCHOOL OF HYGIENE

80. Salaries

(1) Administration:		
J. G. FitzGerald, Director, @ $5,000 (on leave of absence without salary to 30 September; paid also by Connaught Laboratories)...	$3,750 00	
J. Craigie, Secretary (paid also $500 as Assistant Professor — see below, and by Connaught Laboratories)......................	500 00	
Keith M. Kerns, Office Assistant (part time — paid also by Connaught Laboratories)......................................	350 00	
(2) Epidemiology and Biometrics:		
R. D. Defries, Associate Director, School of Hygiene, and Professor of Hygiene and Epidemiology (see also Department of Hygiene — paid also by Connaught Laboratories)......................	2,500 00	
N. E. McKinnon, Associate Professor, Hygiene and Epidemiology (paid also by Connaught Laboratories)......................	1.000 00	
J. Craigie, Assistant Professor, Epidemiology (see Administration above)	500 00	
Lecturers (Sessional):		
Miss Mary A. Ross, Biometrics............................	2,400 00	
A. E. Berry, Public Health Engineering (see also Civil Engineering: Municipal and Structural)..........................	500 00	
Special Lecturers (Sessional):		
F. Adams..	21 45	
D. V. Currey...	20 00	
Clinical Associates, Epidemiology (Sessional — part time):		
J. T. Phair (paid also $40 in School of Nursing)............	300 00	
A. L. McKay..	250 00	
A. H. Sellers, Demonstrator, Biometrics (Sessional — paid also by Connaught Laboratories).................................	350 00	
Laboratory Assistants, Biometrics:		
S. Raven...	890 00	
W. Moore...	700 00	
Miss S. R. McCausland....................................	384 00	
Robert Randall, Secretary................................	1,100 00	
(3) Physiological Hygiene:		
C. H. Best, Acting Head of Department (without salary — see also Department of Physiology and Special Research)..............	....	
Assistant Professors (paid also by Connaught Laboratories):		
D. S. McLean...	2.900 00	
E. W. McHenry (part time)................................	1.100 00	
J. G. Cunningham, Lecturer, Industrial Hygiene (Sessional).......	1,000 00	
Research Associates:		
H. M. Barrett, Industrial Hygiene..........................	2,700 00	
Mrs. Ruth C. Partridge, @ $2,100, of which $1,100 charged to Medical Research — Best Fund..........................	1.000 00	
J. H. Johnston, Research Assistant, Industrial Hygiene............	500 00	
Miss E. L. Mahon, Secretary, 11 mos............................	1,100 00	
C. R. Cowan, Senior Technical Assistant, @ $2.000, of which $500 charged to Medical Research — Best Fund....................	1,500 00	
Technical Assistants:		
W. Staples..	950 00	
C. L. Skelding (resigned 31 March)..........................	547 50	
Kenneth Roseblade (vice C. L. Skelding — paid also $30.41 from Medical Research — Best Fund)........................	182 50	
(4) Chemistry in Relation to Hygiene:		
P. J. Moloney, Associate Professor (paid also by Connaught Laboratories)	2,800 00	
Miss E. M. Taylor, Demonstrator (Sessional — paid also by Connaught Laboratories)......................................	500 00	
Dr. M. Doreen Smith, Class Assistant (Sessional — part time; paid also by Connaught Laboratories)............................	200 00	
Technical Assistants:		
George Kimm..	830 00	
R. L. Moore...	540 00	
		$33.865 45

81. Maintenance of Department

(1) Administration ($528.17):	
Mimeograph Co., paper, pads, ink, etc...........................	$11 46
Postage	40 98
Telephone service..	339 16

University Press, printing and stationery	118 58	
Accounts under $10 (3)	17 99	
(2) Epidemiology and Biometrics ($284.40):		
Canadian Public Health Association, reprints	20 09	
Mimeograph Co., stencils, paper, etc.	79 66	
Postage	33 00	
University Press, printing and stationery	114 85	
Accounts under $10 (3)	17 05	
Sundry disbursements by department	19 75	
(3) Physiological Hygiene ($407.47):		
Connaught Laboratories, maintenance of animals, laboratory coats, filter paper, etc.	362 81	
Hoffman-La Roche Ltd., chemicals	17 94	
Matthews, McCutcheon & Co., kodachrome	10 25	
New York Academy of Medicine, photostats	5 88	
Superintendent's Dept., material	10 59	
(4) Chemistry in Relation to Hygiene ($270.30):		
British Drug Houses, chemicals	23 17	
Canadian Laboratory Supplies, chemicals and glassware	155 41	
E. Hookway Glass Works, glassware	41 50	
Wilson Scientific Co., chemicals and glassware	25 16	
Accounts under $10 (4)	14 46	
Sundry disbursements by department	10 00	
Superintendent's Dept., freight	60	
	$1.490 34	
Less paid by School of Nursing	400 00	
		$1.090 34
(Charged to Rockefeller Fund, Hygiene)		$34,955 79

IX. FACULTY OF APPLIED SCIENCE

82. SALARIES

Dean's Office

C. H. Mitchell, Dean	$6.000 00	
		$6,000 00

Electrical Engineering

H. W. Price, Professor	$5,500 00	
A. R. Zimmer, Associate Professor (paid also $10 for Extension Work)	4.200 00	
Assistant Professors:		
V. G. Smith	3.500 00	
B. deF. Bayly	3.000 00	
Lecturers (Sessional):		
R. J. Brown	2.100 00	
J. E. Reid	1.600 00	
L. S. Lauchland, Instructor (Sessional)	1.400 00	
Demonstrators (Sessional):		
E. A. Ricker	1.125 00	
C. J. Bridgland	1.100 00	
S. H. Galloway	1.025 00	
A. U. Houle	1.025 00	
W. B. Morrison	1.025 00	
R. C. Anthes	1.000 00	
G. L. Hood	1.000 00	
L. G. Macdougall	1.000 00	
C. H. Salvadge, 2 mos.	100 00	
J. W. Lawson, Mechanician	2.000 00	
W. R. McKee, Electrician	2.000 00	
W. L. Bakewell, Assistant Electrician	1.100 00	
Miss H. L. Redmond, Office Assistant and Librarian, @ $1.000, of which half charged to Civil Engineering: Municipal and Structural	500 00	
		$35.300 00

Mechnical Engineering

Professors:		
R. W. Angus	$6.000 00	
E. A. Allcut (paid also $200 for Extension Work)	4.500 00	
Ross Taylor, Associate Professor	3,600 00	
W. G. McIntosh. Assistant Professor	3,400 00	
Lecturers (Sessional):		
G. R. Lord	2,500 00	
T. C. Graham (resigned 31 December)	975 00	
R. C. Wiren	1.900 00	
G. H. Hally	1.900 00	
Demonstrators, Thermodynamics (Sessional):		
R. J. Birss (paid also $330 in Special Research)	1,100 00	
C. E. Beynon	1,000 00	
A. S. Foreman	1,000 00	
Demonstrators, Hydraulics (Sessional):		
J. W. Fry	1.000 00	
Wm. D. Smith	857 15	
Demonstrators. Machine Design (Easter Term):		
J. B. Treloar	660 00	
W. E. B. Parker	580 00	
W. A. Higgins (from 19 January)	435 00	
F. Hickey. Engineer and Machinist	2,000 00	
Arthur Savage, Assistant Machinist, 1,574 hours @ 70c	1,108 80	
Earl Burt, Fireman. 1,540 hours @ 50c	770 00	
W. Odd. Laboratory Attendant (resigned 30 June)	1.200 00	
Miss M. Burt, Office Assistant and Librarian	1,150 00	
		$37,635 95

Civil Engineering: Municipal and Structural

Professors:		
C. R. Young, Civil Engineering	$5.500 00	
T. R. Loudon, Applied Mechanics	5.000 00	
Assistant Professors:		
C. F. Morrison	2.600 00	
W. L. Sagar	2,600 00	
M. J. C. Lazier, Lecturer, Applied Mechanics (Sessional)	2.400 00	
Special Lecturers (Sessional — part time):		
A. E. Berry (paid also $500 in School of Hygiene)	1,000 00	
J. N. Goodier	800 00	
Demonstrators (Sessional):		
C. E. Helwig. Civil Engineering (paid also $300 in Special Research)	1.250 00	
I. M. Hamer. Applied Mechanics	800 00	
W. Kubbinga, Mechanician	1.100 00	
J. Brown. Laboratory Assistant	1.100 00	
Miss H. L. Redmond, Office Assistant and Librarian (see also Electrical Engineering)	500 00	
		$24,650 00

Civil Engineering: Surveying and Geodesy

W. M. Treadgold. Professor (paid also $562.50 for Summer Camp)	$4.500 00	
Associate Professors:		
S. R. Crerar (paid also $500 for Summer Camp)	4.000 00	
E. W. Banting (paid also $475 for Summer Camp)	3.800 00	
J. W. Melson (paid also $450 for Summer Camp)	3.600 00	
T. L. Rowe. Instructor (Sessional — paid also $125 for Summer Camp)	1.450 00	
S. A. J. Hopper. Demonstrator (Sessional)	375 00	
C. T. Harding, Mechanician. @ $925. of which $500 charged to Applied Physics (paid also $120 in Special Research)	425 00	
Miss R. Cave, Office Assistant and Librarian, @ $1.225. of which $500 charged to Applied Physics and $100 to Photographic Service	625 00	
		$18,775 00

Mining Engineering

H. E. T. Haultain. Professor	$6.000 00	
Associate Professors:		
F. C. Dyer	4.100 00	
J. T. King	4.100 00	
S. E. Wolfe, Lecturer, Assaying (Sessional)	2,000 00	

Demonstrators (Sessional):		
T. A. Frankish	1.100 00	
W. A. M. Hewer	1.100 00	
R. H. Junker	1.100 00	
W. T. Turrall (paid also $611.10 as Nipissing Research Fellow and $65 from Medical Research — Banting Fund)	1.100 00	
E. Tozer, Laboratory Assistant and Mechanician	1.500 00	
C. Waybrant, Laboratory Attendant, Assaying	1.250 00	
H. J. Reilly, Assistant Mechanician (Sessional — part time)	960 00	
Laboratory Helpers @ $14.28 per week:		
D. Edwards, 28 weeks	400 00	
C. Rickard, 28 weeks	400 00	
Miss J. Bradshaw, Office Assistant and Librarian	1,100 00	
		$26.210 00

Metallurgical Engineering

G. A. Guess, Professor	$5.700 00	
Associate Professors:		
J. A. Newcombe (paid also $340 for Extension Work)	3.700 00	
R. J. Montgomery, Ceramics	3.600 00	
J. E. Toomer, Assistant Professor	3.450 00	
Hector Ross, Laboratory Attendant (Sessional — paid also $40 for messenger service)	700 00	
Office Assistant and Librarian:		
Miss A. Hay, $25, of which 3/5ths charged to Secretary's Office)	10 00	
Miss V. N. Rigler, from 27 September @ $61 per month, of which 3/5ths charged to Secretary's Office	157 30	
		$17,317 30

Chemical Engineering and Applied Chemistry

Professors:		
J. Watson Bain, Chemical Engineering	$5.500 00	
M. C. Boswell, Organic Chemistry	4.900 00	
E. G. R. Ardagh, Applied Chemistry	4.500 00	
Assistant Professors:		
E. A. Smith, Chemical Engineering	3.300 00	
R. R. McLaughlin, Applied Chemistry	3.000 00	
Instructors (Sessional):		
A. M. Fitzgerald	1,600 00	
G. P. Beal (paid also $325 in Special Research)	1,300 00	
J. G. Breckenridge	1.300 00	
H. Boeschenstein, Technical German (without salary)	....	
Demonstrators (Sessional):		
W. C. Macdonald (paid also $220 in Special Research)	1,200 00	
W. H. Rapson (paid also $450 in Special Research and $100 for Extension Work)	1,150 00	
N. R. Fasken (paid also $250 in Special Research)	1.050 00	
D. F. Fraser (resigned 31 October)	150 00	
M. Adelman	1,000 00	
A. S. Weatherburn (paid also $75 in Special Research)	1.000 00	
B. Marks (vice D. F. Fraser — paid also $250 in Special Research)	855 00	
A. S. Hunt, Lecture Assistant and Glass-blower	1.700 00	
F. Westhead, Laboratory Assistant	1.200 00	
M. L. Hammond, Lecture Assistant	1.000 00	
Laboratory Attendants @ $10 to $17 per week:		
T. Storton, 52 weeks, 1 day	900 00	
W. Bolton, 42 weeks	420 00	
A. Duggan, 35 weeks	350 00	
H. Neill, 34 weeks	340 00	
E. W. Patterson, 28 weeks	280 00	
T. Linsey Crossley, Special Lecturer, Pulp and Paper (Sessional)	100 00	
Miss D. Birkett, Office Assistant and Librarian, @ $1.250, of which $200 charged to Secretary's Office	1,050 00	
		$39.145 00

School of Architecture

Professors:		
H. H. Madill	$4.500 00	
E. R. Arthur, Architectural Design	4,400 00	
H. J. Burden, Assistant Professor	3.100 00	
W. E. Carswell, Lecturer (Sessional)	2.450 00	
Miss J. C. Laing, Librarian and Instructor, Architectural History and French	1,850 00	

Instructors (Sessional — part time):		
C. W. Jefferys, Painting	1,500 00	
F. Coates, Modelling (paid also $75 for Extension Work)	950 00	
Mackenzie Waters, Special Instructor, Architectural Design, 6 mos.	1,000 00	
Special Lecturers (Sessional — part time):		
A. S. Mathers, 7 mos.	900 00	
W. S. Wilson, Architectural Economics (see also Secretary's Office)	250 00	
H. Carver, Town Planning	200 00	
H. B. Dunnington-Grubb, Landscape Architecture	100 00	
A. Wardell, Heating and Ventilating (without salary — see also Engineering Drawing)	....	
G. A. Arksey, Attendant in Drafting Room (Sessional)	800 00	
Miss E. W. Dyer, Office Assistant, @ $840 for 9 mos., of which $340 charged to Engineering Drawing)	500 00	
		$22,500 00

Engineering Drawing

J. R. Cockburn, Professor, Descriptive Geometry	$5,000 00	
Associate Professors:		
W. J. Smither, Structural Engineering	4,100 00	
W. J. T. Wright (paid also $300 as Special Lecturer, Technical English)	3,900 00	
Assistant Professors:		
W. B. Dunbar	2,750 00	
A. Wardell	2,700 00	
Lecturers (Sessional):		
P. V. Jermyn	2,400 00	
J. J. Spence	2,000 00	
Instructors (Sessional):		
R. M. Clark	1,500 00	
G. R. Edwards	1,500 00	
Demonstrators (Sessional):		
J. M. Carswell	1,400 00	
H. H. Cook	1,000 00	
W. E. Ewens	1,000 00	
C. J. Woodley (part time)	700 00	
D. C. McNevan, from 27 November	600 00	
G. Brown, Attendant in Drafting Rooms, 9 mos.	1,100 00	
Miss E. W. Dyer, Office Assistant (see also School of Architecture)	340 00	
		$31,990 00

Applied Physics

K. B. Jackson, Assistant Professor	$3,400 00	
Instructors (Sessional):		
V. L. Henderson	1,750 00	
W. J. Jackson	1,550 00	
Demonstrators (Sessional):		
L. E. Jones (paid also $525 in Special Research)	1,300 00	
W. A. Mohun	450 00	
D. H. Hamly (see also Botany and Special Research)	450 00	
Miss R. Cave, Office Assistant and Librarian (see also Civil Engineering: Surveying and Geodesy)	500 00	
C. T. Harding, Mechanician (see also Civil Engineering: Surveying and Geodesy)	500 00	
		$9,900 00

Special Lectures

Special Lecturers (Sessional):		
R. E. Laidlaw, Engineering Law	$500 00	
R. R. Grant, Accountancy and Business (paid also $200 for Extension Work)	300 00	
W. J. T. Wright, Technical Drawing (see also Engineering Drawing)	300 00	
F. H. Kirkpatrick, Public Speaking (paid also $400 for Extension Work)	250 00	
		$1,350 00

Secretary's Office

W. S. Wilson, Secretary (paid also $250 in School of Architecture)	$3,200 00	
Miss E. Birkett, Assistant Secretary	1,650 00	
Miss M. Fenton, Assistant	1,150 00	

Stenographers:		
Miss D. Birkett (see also Chemical Engineering)	200 00	
Miss A. Hay (see also Metallurgical Engineering)	15 00	
Miss V. N. Rigler (resigned 9 April) (see also Metallurgical Engineering)	236 00	
		$6,451 00
		$277,224 25

83. Electrical Engineering

Supplies ($2,251.26):		
Aikenhead Hardware Ltd., hardware	$190 24	
Canadian Durex Abrasives Ltd., cloth	29 91	
Canadian General Electric Co., cement, varnish and lamps	52 62	
Canadian Johns-Manville Co., asbestos panels	14 86	
Canadian National Carbon Co., batteries, etc	83 32	
Canadian Westinghouse Co., sockets and tubes	35 34	
Canadian Wire & Cable Co., wire	10 31	
W. A. Carveth & Co., objectives, eye pieces, etc	65 50	
Central Scientific Co., magnets	15 68	
Diamond State Fibre Co., tubing	35 37	
Driver, Harris Co., wire	30 91	
T. Eaton Co., brushes, gasoline and stain	13 77	
General Radio Co., radio parts	452 31	
D. Gestetner Ltd., stencils, ink and paper	123 79	
George Gorton Machine Co., cutters	24 64	
Grand & Toy, holders	12 00	
Leeds & Northrup Co., scales	20 18	
Mitchell, Rand Insulation Co., tubing	18 77	
Photographic Service, slides and prints	28 52	
Postage	40 00	
Pratt, Whitney Co., hardware	58 36	
G. W. Sadler Co., belting	15 75	
Weston Electric Instrument Co., washers, coils and springs	47 71	
Wholesale Radio Co., radio supplies	195 59	
Worr Foundry Co., castings	17 57	
University Press, printing and stationery	105 65	
Accounts under $10 (18)	114 89	
Sundry disbursements by department:		
Hardware, $24.55; stationery, etc., $15.55; sundries, $9.84	49 94	
Superintendent's Dept., freight, $69.21; labour, $136.33; material, $142.22	347 76	
Apparatus ($1,055):		
Aikenhead Hardware Ltd., hardware	42 09	
Canadian General Electric Co., rectifier	51 10	
Eppley Laboratory Inc., cells	42 00	
General Radio Co., radio parts	577 49	
E. Hoffman Machinery Supply Co., motor	15 00	
Keuffel & Esser Co., slide rules	32 16	
Robbins & Myers Co., fan	56 25	
Weston Electrical Instrument Corporation, meters	238 91	
Furniture, printing and incidentals:		
University Press	59 51	
	$3,365 77	
Less credits: Laboratory deposits, $46.25; material returned, $7.85	54 10	
		$3,311 67

84. Mechanical Engineering

Supplies ($810.33):		
Aikenhead Hardware Ltd., hardware	$95 06	
Canadian Laboratory Supplies, chemicals, etc	31 09	
Dominion Bridge Co., metal plate	16 50	
Arthur S. Leitch, cocks	15 36	
McColl-Frontenac Oil Co., oil and grease	74 46	
Postage	24 00	
Robbins & Townsend, typewriter inspection	13 00	
Scythes & Co., waste	19 76	
Taylor Instrument Co., thermometers	11 46	
Worr Foundry Co., grate bars	27 22	
Accounts under $10 (4)	27 20	
Sundry disbursements by department	15 00	

Superintendent's Dept., freight, $2.31; labour, $142.43; material, $295.48	440 22	
Apparatus — Thermodynamics and Aerodynamics ($9.951.35):		
Crane Ltd., steel	14 21	
Dominion Bridge Co., metal plate	12 00	
Laurie & Lamb, compression ignition engine and hydraulic dynamometer	2.975 82	
Leyland Motors Ltd., muffler, etc.	27 75	
Tinius Olsen Testing Machine Co., balancing machine	3.404 31	
Storey Pump & Equipment, gasoline engine	463 99	
Veedor-Root Ltd., counters	7 40	
Wankesha Motor Co., compressor	2.519 61	
Superintendent's Dept., freight, $242.54; labour, $178.08; material, $105.64	526 26	
Apparatus — Hydraulics ($233.95):		
Aikenhead Hardware Ltd., hardware	25 27	
Coulter Copper & Brass Co., brass	21 28	
Dominion Wheel Foundries, engine support	29 00	
Arthur H. Leitch, indicators, etc.	24 50	
McGregor-McIntyre Iron Works, angles	16 00	
Monarch Belting Co., belting	15 25	
Superintendent's Dept., labour, $41.57; material, $61.08	102 65	
Proportion of fuel for Experimental Plant:		
W. H. Cox Coal Co.	543 43	
Furniture, printing and incidentals ($252.74):		
Bernard Cairns, stamp pad	4 56	
Keuffel & Esser, slide rules	24 54	
Photographic Service, slides and prints	42 29	
University Press, printing and stationery	174 16	
Superintendent's Dept., freight, 45c; labour, $6.35; material, 39c.	7 19	
	$11.791 80	
Less credit from sale of material	88 90	
		$11,702 90

85. Civil Engineering: Municipal and Structural

Supplies ($569.51):		
Aikenhead Hardware Ltd., hardware	$89 45	
Baines & David, steel	78 88	
British Xylonite Co., xylonite	14 85	
Dunlop Tire & Rubber Co., cushions	13 23	
McBain Foundry, castings	16 78	
Photographic Service, prints and slides	32 72	
Postage	42 00	
E. E. Verbeck, tables	44 10	
University Press, printing and stationery	83 54	
Accounts under $10 (8)	34 45	
Superintendent's Dept., freight, $4.21; labour, $32.33; material, $82.97	119 51	
Apparatus ($373.25):		
B. C. Ames & Co., gauges	75 29	
Canadian Liquid Air Co., torch, parts, etc.	71 81	
C. A. Hogentogler, plasticity needle	54 63	
Office Specialty Mfg. Co., filling cabinet	35 25	
Radio Supply Co., robot key	19 90	
Sprague & Henwood, sampler, etc.	70 32	
W. S. Tyler Co., sieves and scales	36 80	
Accounts under $10 (2)	9 25	
	942 76	
Less credit from sale of manuals	33 25	
		$909 51

86. Civil Engineering: Surveying and Geodesy

Supplies ($469.95):		
Aikenhead Hardware Ltd., hardware	$18 25	
Art Metropole, taper and refills	70 50	
D. Gestetner Ltd., stencils and ink	16 38	
Langmuir Mfg. Co., drawing boards	27 65	
Photographic Service, blue-prints and rectigraphs	12 07	
Thos. Pocklington Co., transit repairs	105 50	

University of Toronto Engineering Society, field books and supplies	112 75	
University Press, printing and stationery	64 11	
Accounts under $10 (5)	22 73	
Sundry disbursements by department	10 00	
Superintendent's Dept., labour, $7.37; material, $2.64	10 01	
Apparatus:		
Instruments Ltd., stereoscope, $1,092.50; less $342.50 to be paid in 1938-39	750 00	
Summer Survey Camp — Maintenance ($6,039.34):		
Instructional Staff ($2,510.80):		
W. M. Treadgold, services, $562.50; living expenses, $67.50; travelling expenses, $20; supplies, $2.20	652 20	
S. R. Crerar, services, $500; living expenses, $51.25; travelling expenses, $20; supplies, $2.35	573 60	
E. W. Banting, services, $475; living expenses, $67.50; travelling expenses, $20	562 50	
J. W. Melson, services, $450; living expenses, $67.50; travelling expenses, $20	537 50	
T. L. Rowe, services, $125; living expenses, $50; travelling expenses, $10	185 00	
Sundry expenses ($2,697.44):		
Britnell's Bakeries, bread	56 35	
T. E. Campbell, firewood	74 50	
Coleman Lamp & Stove Co., mantels and generators	22 49	
Currie Products Ltd., roofing	149 64	
Easton's Meat Market, meat	39 03	
T. Eaton Co., utensils and crockery	106 51	
A. Fisher, vegetables	57 45	
Geology Dept., notebooks and supplies	39 00	
Gurney Foundry Co., stove	25 09	
Hewitt Bros., cartage	94 07	
G. W. Hudson, drafting tables	80 00	
Kawartha Lumber Co., lumber	44 37	
Kermath Mfg. Co., rebuilding marine engine	150 00	
A. Langdon, stakes, etc.	21 25	
W. A. Lindop, gasoline and oil	71 33	
Loblaw Groceterias, provisions	1,002 72	
Mrs. J. Minto, milk and eggs	45 20	
A. R. Moss, lumber	32 64	
T. L. Rowe, cartage	25 00	
C. Trumbell, milk	180 20	
S. W. Welch, hardware, etc.	240 51	
Accounts under $10 (3)	7 45	
Superintendent's Dept., freight, $1.28; labour, $20.13; material, $111.23	132 64	
Payments to Help ($831.10):		
J. E. Minto, caretaker, 12 mos., $240; building and boat repairs, $85.60; ice supply, $35; cutting wood, $48.50	409 10	
Mrs. J. E. Minto, cook	395 00	
D. Campbell, hauling	27 00	
	$7,259 29	
Less credits: Board at Summer Camp, $2,657.25; laboratory deposits, $297.60	2,954 85	
		$4,304 44

87. MINING ENGINEERING

Supplies ($2,170.77):	
Aikenhead Hardware Ltd., hardware	$79 55
Canadian Laboratory Supplies, chemicals, glassware, etc.	234 97
Central Scientific Co., chemicals and glassware	213 47
Denver Fire Clay Co., crucibles, etc.	252 26
T. Eaton Co., stools, utensils, etc.	105 57
A. S. Hunt, glassblowing	39 95
Imperial Oil Ltd., fuel oil	44 70
Ingram & Bell, forceps and cotton	10 95
McBain Foundry, castings	10 06
Nichols Chemical Co., acids	17 21
Ontario Rubber Co., tubing, etc.	25 10
Postage	20 00
Safety Supply Co., respirators	12 30

T. S. Simms Co., varnish	59 92	
Sturtevant Mill Co., grinding discs	18 40	
W. S. Tyler Co., sieves	78 65	
University Press, printing and stationery	360 80	
Accounts under $10 (20)	98 64	
Sundry disbursements by department	17 70	
Superintendent's Dept., freight, $93.93; labour, $144.86; material, $231.78	470 57	
Apparatus ($1,569.57):		
Jas. G. Biddle Co., rheostat	17 99	
Canadian Laboratory Supplies, stop watch and thimbles	16 47	
Walter A. Carveth & Co., microscope parts and stage	176 32	
C. F. Casella Co., precipitator equipment	281 24	
Corning Glass Works	39 40	
Grand & Toy, cabinet	10 80	
W. R. McKee, electrical repairs	73 70	
Morgan Crucibles Co., scorifiers	78 98	
Office Specialty Mfg. Co., shelving	44 40	
J. W. Ritchie, motors	36 00	
Fletcher Russell Co., furnace parts	123 27	
Wettlaufer Machinery Co., crusher	137 80	
Accounts under $10 (5)	20 40	
Superintendent's Dept., cable, $2.13; freight, 48c; labour, $314.94; material, $195.25	512 80	
	$3,740 34	
Less credits: Laboratory deposits, $203.90; breakages, $40.13	244 03	
		$3,496 31

88. METALLURGICAL ENGINEERING

Supplies ($435.75):		
Canada Metal Co., lead, tin, etc	$15 11	
Canadian Atlas Steels Ltd., metal bars	11 69	
Canadian Laboratory Supplies, chemicals, glassware, etc	192 88	
Canadian Liquid Air Co., cylinder rental	11 00	
Denver Fire Clay Co., fire clay, etc	27 88	
Eastman Photographic Stores, plates and paper	86 86	
Fisher Scientific Co., emery paper	29 40	
University Press, printing and stationery	11 39	
Accounts under $10 (6)	31 40	
Superintendent's Dept., freight, 09c; material, $18.05	18 14	
Apparatus ($512.35):		
Canadian Laboratory Supplies, hot plates, etc	60 27	
Bausch & Lomb Optical Co., plate holders, etc	15 98	
Central Scientific Co., heating unit	54 49	
T. Eaton Co., utensils	10 35	
Fletcher, Russell & Co., furnace parts	168 65	
W. H. Kubbinga, machine work	2 60	
W. R. McKee, meter repairs	14 10	
Weston Electrical Instrument Co., meters	62 62	
Williams & Watson, bricks	14 85	
Superintendent's Dept., freight, $22.54; labour, $53.56; material, $32.34	108 44	
	$948 10	
Less credit for material returned	14 65	
		$933 45

89. CHEMICAL ENGINEERING AND APPLIED CHEMISTRY

Supplies ($7,682.31):		
Armstrong Cork & Insulation Co., corks	$58 03	
British Drug Houses, chemicals, etc	132 16	
Canada Packers Ltd., oil	35 29	
Canadian Industries Ltd., acids, etc	39 16	
Canadian Kodak Co., chemicals	28 13	
Canadian Laboratory Supplies, electrometer, thermometers, chemicals and glassware	2,198 92	
Canadian Liquid Air Co., rental of cylinders and gas	124 19	
Central Scientific Co., glassware, etc	821 36	
Consumers' Gas Co., meter rent	10 00	
Consumers' Glass Co., glassware	33 60	

Dominion Oxygen Co., gas	53 01	
Eister Electric Corporation, electrodes	18 55	
Fidea & Co., watch repairs	18 00	
A. Gallenkamp, freight charges	13 20	
General Steel Wares Ltd., parts	61 15	
B. Greening Wire Co., wire	16 21	
O. W. Herzberg, chemicals	110 86	
Ingram & Bell, gylcerine, cotton, etc	12 69	
Lake Simcoe Ice & Fuel Ltd., ice	46 59	
Liquid Carbonic Canadian Corporation, gas	12 00	
Lorie Ltd., gold plating	126 75	
McIntyre & Taylor, tripods, etc	18 24	
W. R. McKee, electrical repairs	54 45	
Mallinckrodt Chemical Works, chemicals	40 94	
Merck & Co., chemicals	267 43	
Jas. Morrison Brass Co., gauges repaired	42 05	
Nichols Chemical Co., chemicals and containers	580 88	
Photographic Service, slides and prints	34 73	
Thos. Pocklington Co., balance repairs, etc	123 50	
Robbins & Townsend, typewriter inspection	17 90	
Textile Products, towels	187 05	
Twisswire Brushes Ltd., brushes	26 40	
University Library, Books replaced	36 41	
Weston Electrical Instrument Co., cell	20 80	
Wilson Scientific Co., glassware, etc	186 72	
F. W. Wodsworth Co., tools	14 63	
University Press, printing and stationery	327 11	
Accounts under $10 (25)	127 99	
Sundry disbursements by department:		
Hardware, $11.91; stationery, postage, etc., $28.20; sundries, $19.74	59 85	
Superintendent's Dept., freight, $53.96; labour, $854.32; material, $637.10	1.545 38	
Apparatus ($2.511.85):		
Canadian Laboratory Supplies, colorimeters, weights, viscosimeter, etc.	1,435 28	
Central Scientific Co., pump	166 60	
Foster, Wheeler Ltd., packing, etc	15 52	
A. Gallenkamp & Co., furnace	63 01	
Italian Mosaic & Tile Co., tiling	92 00	
Leeds & Northrup Co., electrodes, meters, etc	170 35	
Alex. Wright & Co., saturating tower	54 61	
Superintendent's Dept., labour, $333.79; material, $180.69	514 48	
	$10,194 16	
Less credits: Laboratory deposits, $1,223.35; sale of material, $25.50	1.248 85	
		$8,945 31

90. SCHOOL OF ARCHITECTURE

Supplies ($492.71):	
Aikenhead Hardware Ltd., hardware	$12 66
Art Metropole, prints and brushes	10 34
Beaux Arts Institute of Design, programme service	25 18
Wm. Dawson Subscription Service	25 50
Photographic Service, slides and prints	99 72
Postage	28 00
Robbins & Townsend, typewriter inspection	20 20
C. L. Todd, subscriptions	11 00
University Library, replacing books lost	15 74
University of Toronto Engineering Society, drawing supplies	11 80
University Press, printing and stationery	82 78
Accounts under $10 (12)	61 03
Superintendent's Dept., freight, $1.67; labour, $37.04; material, $50.05	88 76
Apparatus ($195.14):	
Artists' Supply Co., canvasses	54 00
T. Eaton Co., chair	18 00
Laidlaw Lumber Co., models	24 30
Accounts under $10 (3)	19 21
Superintendent's Dept., labour, $55.87; material, $23.76	79 63

Models for life Class:		
Prof. H. H. Madill, reimbursement for payments made	24 00	
Staff expenses — outdoor sketching classes:		
Prof. H. H. Madill, expenses (three members of staff)	96 48	
	$808 33	
Less credit from laboratory deposits	6 40	
		$801 93

91. Engineering Drawing

Supplies ($312.70):		
Blackie & Son, text books	$10 00	
D. Gestetner Ltd., stencils and paper	20 53	
Photographic Service, prints and slides	31 31	
J. Frank Raw & Co., drawing instruments	54 00	
University Press, printing and stationery	46 34	
Accounts under $10 (9)	37 65	
Superintendent's Dept., labour, $87.77; material, $25.10	112 87	
Apparatus:		
Robbins & Townsend, rebuilt typewriter, desk and chair	120 00	
Printing Instruction Sheets ($147.75):		
D. Gestetner Ltd., stencils, ink and paper	60 54	
University Press	87 21	
	$580 45	
Less credit from laboratory deposits	15 60	
		$564 85

92. Applied Physics

Supplies ($687.69):	
Aikenhead Hardware Ltd., hardware	$53 15
F. Baker, caretaker's overtime services	11 00
British Aluminum Co.	10 64
Brown Bros., paper	12 72
Walter A. Carveth & Co., slides, masks and binding	31 35
Coulter Copper & Brass Co., metal	17 25
T. Eaton Co., chemicals, films, etc.	10 65
Exide Batteries of Canada, battery	10 00
D. Gestetner Ltd., ink and stencils	11 76
Office Specialty Mfg. Co., guides and folders	14 50
Photographic Service, chemicals, prints, etc.	139 72
Radio Trade Supply Co., radio supplies	16 96
Geo. Rathbone Lumber Co., masonite, etc.	15 53
University of Toronto Engineering Society, tracing paper and reprints	17 28
Wholesale Radio Co., radio supplies	17 05
University Press, printing and stationery	58 91
Accounts under $10 (21)	58 95
Sundry disbursements by department:	
Stationery, $5.75; postage, $5.34; sundries, $11.91	23 00
Superintendent's Dept., freight, $23.97; labour, $22.05; material, $111.25	157 27
Apparatus ($1,268.24):	
American Hard Rubber Co., rod	10 98
American Instrument Co., regulator	10 68
American Transformer Co., transformers	48 97
Beck Bros., rheostats, etc.	30 40
Canadian General Electric Co., oscillograph, lamps, projector, etc.	119 82
Walter A. Carveth & Co., projector	46 75
Exide Batteries of Canada, cells	283 80
G. M. Laboratories, rheostats	43 35
Howard Furnace Co., furnace parts	98 10
International Resistance Co., resistors	42 46
Leeds & Northrup Ltd., resistors	152 25
Northern Electric Co., transmitter, etc.	56 45
Office Specialty Mfg. Co., cabinets	47 75
Robt. Simpson Co., tripod	22 50
Struthers & Dunn, relay	10 17
University of Toronto Engineering Society, graph paper	12 37
Weston Electrical Instrument Co., motor and voltmeter	46 47

Accounts under $10 (11)	57 39	
Superintendent's Dept., labour, $78.15; material, $49.43	127 58	
	$1,955 93	
Less credits: Laboratory deposits, $200.75; sale of material, etc., $11.10	211 85	
		$1,744 08

93. General Expenses

Stationery, printing, Calendar, office supplies and incidentals ($1,905.87):		
Canadian National Telegraphs	$17 98	
Chemical Engineering Dept., used typewriter	20 00	
D. Gestetner Ltd., stencils	34 00	
Photographic Service, slides and prints	227 47	
Postage	196 00	
Thomas & Corney Typewriters, Ltd., typewriter repairs	18 00	
University Press, printing and stationery	1,303 10	
Accounts under $10 (5)	23 65	
Sundry disbursements by Secretary	15 00	
Superintendent's Dept., labour, $48.18; material, $2.49	50 67	
Furniture, fixtures, books, etc. ($216.50):		
T. Eaton Co., linoleum	185 00	
Grand & Toy, chair	25 50	
Office Specialty Mfg. Co., stools	6 00	
Clerical Assistance ($151.70):		
Miss P. E. McLaughlin, 3 weeks	54 00	
Mrs. N. Nixon, 5/6 weeks	16 70	
Miss W. Talman, 4½ weeks	81 00	
Messenger service ($822.50):		
A. C. Dykeman, 52 weeks, 1 day	782 50	
H. Ross, 4 weeks (paid also as Laboratory Attendant in Metallurgical Engineering)	40 00	
	$3,096 57	
Less credit from laboratory deposits	37 40	
		$3,059 17

94. Photographic Service

(a) Salaries:		
Professor G. R. Anderson, Manager (without remuneration)	....	
Photographers:		
C. Crowther (and overtime $5)	$1,450 00	
Mrs. Muriel Milne	1,200 00	
Frank Stark, 10 mos	1,000 00	
W. Vance	950 00	
Mrs. R. E. Morley, Bookkeeper	1,150 00	
Miss R. Cave, Office Assistant (see also Civil Engineering: Surveying and Geodesy)	100 00	
Fred Sayer, Messenger and Studio Assistant (and overtime $6)	650 00	
		$6,500 00
(b) Expenses:		
Supplies:		
W. E. Booth Co., chemicals, films and paper	134 88	
Canadian General Electric Co., projector, lamp, etc	34 78	
Eastman Photographic Stores, paper, plates, etc	435 96	
T. Eaton Co., camera repairs, carriers, etc	40 17	
Favor, Ruhl & Co., colours	10 22	
Gevaert Co., chemicals, plates, etc	317 06	
Instruments Ltd., blue-print paper, etc	70 17	
J. Frank Raw Co., paper, etc	39 34	
Rectigraph Co., paper	205 80	
University Press, printing and stationery	132 36	
Accounts under $10 (4)	12 27	
Superintendent's Dept., freight, $5.50; labour, $6.75; material, $9.41	21 66	
		$1,454 67
		$7,954 67

NOTE: Receipts for photographic work done for various departments (including Accounts Receivable, $182.84) amounted to $4,837.36.

95. MINING BUILDING (INCLUDING MILL BUILDING)

Heat and light		$7.962 69	
Gas, $1.115.83; water, $313.13		1.428 96	
Caretaker's supplies:			
Superintendent's Dept., material		254 58	
Cleaning ($3,721.67):			
Allen Mfg. Co., laundry		37 08	
New York Window Cleaning Co.		35 00	
Superintendent's Dept., labour		3.649 59	
Repairs and renewals ($3.274.88):			
Wm. Bartlett & Son, shades, lantern screen, etc.		57 94	
City Treasurer, elevator license		15 00	
T. Eaton Co., cleaning and filling linoleum		10 00	
Johnson Temperature Regulating Co., heating system repairs		50 21	
Accounts under $10 (2)		7 08	
Superintendent's Dept., labour, $1.890.06; material, $1.244.59		3.134 65	
Alterations to Room 84:			
Superintendent's Dept., labour, $462.73; material, $237.27		700 00	
Caretaker, A. Clarke, 12 mos. (and overtime $152)		1,450 00	
		$18.792 78	
Less heat and light charged to Central Power Plant	$7,962 69		
Credit for cleaning, etc.	22 00		
		7,984 69	
			$10,808 09

96. ENGINEERING BUILDING

Heat and light		$3,401 58	
Gas, $33.42; water, $201.48		234 90	
Caretaker's supplies:			
Superintendent's Dept., material		187 67	
Cleaning ($1,782.83):			
Allen Mfg. Co., laundry		17 40	
New York Window Cleaning Co.		44 50	
Superintendent's Dept., labour		1,720 93	
Repairs and renewals ($2.290.51):			
Wm. Bartlett & Son, shades		19 69	
Robt. Simpson Co., linoleum		79 07	
Superintendent's Dept., labour, $1,553.91; material, $637.84		2.191 75	
Caretaker, F. Baker, 12 mos. (and overtime $153)		1.400 00	
		$9.297 49	
Less heat and light charged to Central Power Plant	$3,401 58		
Credit for cleaning, etc.	193 41		
		3.594 99	
			$5,702 50

97. ELECTRICAL BUILDING (INCLUDING MECHANICAL BUILDING AND WIND TUNNEL)

Heat and light	$4.458 16	
Fuel for Experimental Plant ($1,088.47):		
W. H. Cox Coal Co.	1,087 72	
Superintendent's Dept., labour	75	
Gas, $86.34; water, $412.08	498 42	
Caretaker's supplies:		
Superintendent's Dept., material	113 07	
Cleaning ($2.013.68):		
Allen Mfg. Co., laundry	22 88	
New York Window Cleaning Co.	66 50	
Toronto Window Cleaning Co.	20 00	
Superintendent's Dept., labour	1,904 30	
Repairs and renewals ($1,491.92):		
Wm. Bartlett & Son, shades	24 64	
Canadian Powers Regulating Co., repairs to controls, etc.	9 87	
City Treasurer, elevator license	10 00	
Homes Welded Metals Co., hot-water tank	17 50	
Superintendent's Dept., labour, $878.17; material, $551.74	1.429 91	
Caretaker, F. F. Hitchcock, 12 mos.	1,450 00	
	$11.113 72	

Less heat and light charged to Central Power Plant	$4,458 16		
Credit for cleaning	21 00		
		4.479 16	
			$6.634 56

98. Geodetic Observatory Building

Heat and light	$294 71	
Water	16 20	
Caretaker's supplies:		
Superintendent's Dept., material	18 56	
Cleaning ($124.91):		
Advance Window Cleaning Co.	4 41	
Superintendent's Dept., labour	120 50	
Repairs and renewals:		
Superintendent's Dept., labour, $70.54; material, $3.17	73 71	
	$528 09	
Less heat and light charged to Central Power Plant	294 71	
		$233 38

Charged to Revenue, 1937-38	$328.331 07
Charged to Wallberg Fund	20.000 00
	$348.331 07

X. FACULTY OF DENTISTRY

99. Salaries

(a) *Regular Staff*

A. D. A. Mason, Dean (paid also as Professor)	$1.000 00
Professors:	
A. D. A. Mason, Operative Dentistry (paid also $45 for Extra Mural Lectures)	5.000 00
F. M. Lott, Prosthetic Dentistry (paid also $30 for Extra Mural Lectures)	5,000 00
T. Cowling, Dental Technology and Metallurgy	2.000 00
G. C. Cameron, Dental Pathology and Bacteriology	3.000 00
C. A. Corrigan, Orthodontia (paid also $40 for Extra Mural Lectures)	2.500 00
E. W. Paul, Dental Surgery and Anaesthesia (also Librarian from 1 September)	840 00
F. J. Conboy, Dental Praxis	400 00
S. S. Crouch, Dental Anatomy (paid also $600 as Lecturer, Orthodontia)	250 00
I. H. Ante, Crown and Bridge Prosthesis (without salary — paid $75 for Extra Mural Lectures and $320 for Post Graduate Courses)	....
Associate Professors:	
Dentistry:	
W. G. Switzer	4.000 00
H. A. Hoskin	4.000 00
R. J. Godfrey	3.800 00
R. G. Ellis (paid also $30 for Extra Mural Lectures)	3.800 00
F. A. Clarkson, Medicine	360 00
Fulton E. Risdon, Oral Surgery	180 00
L. A. Kilburn, Dental Praxis	150 00
E. S. Ryerson, Assistant Professor, Surgery (see also Faculty of Medicine)	400 00
Associates:	
Dentistry:	
S. M. Richardson	3.300 00
L. F. Krueger (paid also $160 for Extra Mural Lectures)	1.500 00
G. H. Coram	1.400 00
H. A. Ross	500 00
G. D. Beierl	750 00
F. L. Cole (paid also $60 for Extra Mural Lectures)	670 00
J. H. Duff (paid also $25 for Extra Mural Lectures)	705 00
W. T. Holmes	1.000 00
W. L. Hugill	560 00
F. Martin (paid also $60 for Extra Mural Lectures)	630 00

G. V. Morton (paid also $50 for Extra Mural Lectures)	670 00	
J. M. Sheldon	670 00	
R. R. Walker	670 00	
R. S. Woollatt	670 00	
R. L. Twible	540 00	
D. M. Tanner (paid also $292 as Demonstrator and $100 in Faculty of Medicine)	50 00	
G. Vernon Fisk, Orthodontia (paid also $150 in St. George's School)	200 00	
Miss W. C. Riddle, Histology, Bacteriology and Pathology	2.160 00	
G. W. Spinks, Dental Anatomy	700 00	
Preventive Dentistry:		
J. Kreutzer, also Demonstrator in Operative Dentistry (Sessional)	1.100 00	
M. A. Cox	600 00	
J. H. Johnson, Dental Surgery and Anaesthesia (paid also $15 for Extra Mural Lectures)	3.400 00	
C. H. M. Williams, Periodontia (half time)	1.208 00	
Demonstrators, Assistants, etc. (Sessional):		
Demonstrators:		
P. G. Anderson	495 00	
J. H. G. Harwood (part time)	240 00	
D. M. Tanner, Peridontology (see also above)	292 00	
Miss D. F. J. Berry, Preventive Assistant	1,300 00	
Lecturers:		
C. C. Rous, Applied Chemistry and Metallurgy (see also Office Staff)	300 00	
W. D. Cavanagh, Dentistry	540 00	
S. S. Crouch, Orthodontia (see also above)	600 00	
E. J. Pratt, Special Lecturer, English (see also Faculty of Medicine and Ontario College of Education)	360 00	
Instructors:		
E. M. Rigsby, Dental Technology	240 00	
R. S. Hosking, English Expression (paid also $200 for Extension Work)	100 00	
Laboratory Assistants:		
Technicians:		
W. V. Byrne, Dentistry, 10 mos.	1.900 00	
Miss I. A. Bumby, Bacteriology and Pathology	1.100 00	
H. F. Whittaker (see also Anatomy)	120 00	
Mrs. M. Gratton, Histology (part time) 34 weeks	306 00	
H. Aylward, Infirmary (paid also $33 for overtime)	1.250 00	
		$69.476 00

(b) *Infirmary Staff (including Nurses)*

Nurses:		
Miss L. A. Cameron, Supervisor, Dental Nurses in Training, 10 mos.	$1.300 00	
Miss L. E. Tutt, 10 mos.	900 00	
Miss A. H. Rose, 9 mos.	840 00	
Miss F. G. Whitehead, 8 mos.	800 00	
Miss A. E. Phipps, 10 mos.	800 00	
Miss G. Kyle, 10 mos.	700 00	
Miss E. G. Singer, 10 mos.	700 00	
Miss M. M. Brown, 10 mos.	700 00	
R. M. Turner, Instructor in Typewriting for Dental Nurses	100 00	
Mrs. L. Barraclough, Laundress, 42 weeks @ $16.45	691 00	
		$7.531 00

(c) OFFICE STAFF

C. C. Rous, Secretary (see also above)	$3.000 00	
Miss F. A. Cook, Secretary to the Dean	1.700 00	
Miss R. C. Hopkins, Assistant to Secretary (resigned 31 August)	216 66	
Miss E. B. Mimms, Assistant in Library	1.100 00	
Fraser Mimms, Assistant in Library (Sessional — part time)	140 00	
Miss L. Park, Cashier in Infirmary, 10 mos.	1.100 00	
Miss F. Ward, Stenographer, 2 mos. to 31 August @ $1,100 per annum; Assistant to Secretary @ $1.200 from 1 September (vice Miss Hopkins)	1.183 34	
Miss M. D. Hill, Clerk in Secretary's Office from 1 September (vice Miss Ward, promoted	833 34	
		$9.273 34
		$86.280 34

99a. Post Graduate Course

Dr. I. H. Ante, honorarium as Instructor	$320 00	
Allan & Rollaston, vulcanizing dentures	12 00	
Photographic Service, slides, etc.	2 70	
University Press, printing	22 01	
Sundry expenses	25 00	
		$381 71

100. Laboratory and Infirmary Supplies

Aikenhead Hardware Ltd., hardware	57 41	
Ash Temple Co., dental supplies	1,189 31	
Wm. Bartlett & Son, shade and lantern screen	15 21	
Bausch & Lomb, microscope repairs	20 92	
W. E. Booth & Co., film filters	26 32	
Burke Electric & X-Ray Co., films	26 46	
Bernard Cairns, tags	11 76	
Canadian Hanson & Van Winkle Co., pumice	19 80	
Canadian Laboratory Supplies, slide boxes, etc.	54 03	
Canadian Laundry Machinery Co., ironer	193 30	
Canadian Tumbler Co., glasses	14 40	
Canadian Westinghouse Ltd., refrigerator unit	369 77	
L. D. Caulk Co., dental compound	75 55	
Central Scientific Co., glassware, chemicals, etc.	121 85	
Chemistry Dept., laboratory and sundry supplies	313 85	
Columbia Dentoform Corporation, dental supplies	66 78	
Columbus Dental & X-Ray Corporation, dental supplies	21 70	
Denco Ltd., gold	920 78	
Dental Co., heater	27 11	
Dental Products Corporation	10 75	
De Velbess Mfg. Co., cut offs, with tubing	203 84	
H. S. Dodd, furnace alterations	25 00	
Dominion Dental Co., dental supplies	347 79	
Eastman Photographic Stores, films, chemicals, etc.	493 15	
T. Eaton Co., mattress, chairs, cleaning supplies, etc.	136 87	
Florentine Co., models	43 90	
Ed. Green Dental Supplies, dental supplies	66 84	
Hall Mfg. Co., dental forms and masks	49 04	
J. F. Hartz Co., needles, cat gut, gloves, etc.	129 31	
Interlake Tissue Mills, paper napkins	90 00	
Andrew Jergens Co., soap	11 33	
Johnson & Johnson, absorbent cotton, etc.	247 93	
Johnson, Matthey & Co., gold	1.751 58	
Kelley Feed & Seed Co., feed	13 10	
Mrs. C. A. Kennedy, model trimmer	12 50	
Leiman Bros., polishing outfit	225 33	
Medico Co., syringes	35 48	
Melton Hardware, dental plaster	89 18	
Metal Craft Co., stools	180 00	
Might Directories Ltd., city directory	32 40	
Minneapolis-Honeywell Regulator Co., electrical controls, etc.	18 72	
National Drug & Chemical Co., chemicals	2,078 60	
National Refining Co., gold, furnace castings, porcelain, etc.	3.178 02	
Office Specialty Mfg. Co., guides, desk, etc.	78 13	
Photographic Service, slides and prints	180 79	
Physics Dept., laboratory supplies	34 15	
Geo. P. Pilling & Son Co., electrical pointer	10 24	
E. L. Platt, oxygen machine, repairs, gas, etc.	31 10	
Thos. Pocklington & Co., chart paper	16 00	
Prophylactic Brush Co., tooth brushes	18 04	
Alfred Quantrell, cut-off repairs	15 00	
Reeves & Sons, pictures framed	11 25	
Richards Glass Co., bottles	10 33	
Miss M. Sewell, charts	35 00	
W. R. Sherrick, installing cables, etc., for inter-phone system	175 00	
Robt. Simpson Co., curtains and fittings	207 59	
Ella Skinner, uniforms	494 26	
Wallace C. Sproule, lettering labels and signs	24 75	
Stanley Mfg. Co., name plates	17 10	
Stevens Companies, sterilizers, drums, instrument tables, etc.	1.565 46	
Toronto Dental Dealers, dental supplies	346 64	
United Business School, typewriter rental	45 00	

University of Toronto Engineering Society, pads, pencils, paper, etc.	64 45	
S. S. White Co., electric engine, furnace, and dental supplies	1.377 91	
White X-Ray Surgical Supply Co., mounts	49 00	
Whitex Surgical Supply Co., mounts	37 00	
Williams Gold Refining Co., castings, wire, bars, etc.	931 09	
G. H. Wood & Co., drinking cups	61 50	
University Press, nurses' kits and bulletins	197 89	
Accounts under $10 (35)	155 03	
Sundry disbursements by Secretary:		
Laundry, $136.55; sundry supplies, $55.19	191 74	
Superintendent's Dept., freight, $51.71; labour, $2,998.88; material, $1.881.03	4.931 62	
	$24,380 08	
Less credits: Laboratory deposits, $1,375.97; gold sweepings, $58.20; sale of material, $20.99	1.455 16	
		$22.924 92

101. GENERAL EXPENSES

Stationery, printing, Calendar, office supplies and incidentals ($1,899.95):		
C. P. R. Telegraphs	$32 87	
Postage	145 50	
Robbins & Townsend, typewriter inspection	60 75	
Waller Multigraphing Letter Co., multigraphing	10 00	
University Press, printing and stationery	1.618 63	
Accounts under $10 (3)	17 00	
Sundry disbursements by Secretary	15 20	
Extra-Mural Lectures ($650):		
I. H. Ante	75 00	
F. L. Cole	60 00	
C. A. Corrigan	40 00	
J. H. Duff	25 00	
R. G. Ellis	30 00	
J. H. Johnson	15 00	
L. F. Krueger	160 00	
F. M. Lott	55 00	
F. Martin	95 00	
A. D. A. Mason	45 00	
G. V. Morton	50 00	
American Association of Dental Schools, dues	75 00	
	$2,624 95	
Less received from Royal College of Dental Surgeons, account extra-mural lectures	350 00	
		$2.274 95

102. DENTAL BUILDING

Fuel:		
Milnes Coal Co.	$1.673 68	
Gas, $507.04; electric current, $2,458.28; water, $309.16	3.274 48	
Caretaker's supplies:		
Superintendent's Dept., material	577 30	
Cleaning ($2,205.56):		
New York Window Cleaning Co.	30 00	
Superintendent's Dept., labour	2,175 56	
Repairs and renewals ($2,987.68):		
Wm. Bartlett & Son, shade repairs	34 28	
City Treasurer, elevator licenses	10 00	
Compressed Air Equipment Co., driveway repairs	37 50	
Routery Bros., plaster repairs	26 00	
Accounts under $10 (2)	14 88	
Superintendent's Dept., labour, $2.077.41; material, $787.61	2.865 02	
Caretaker, Robt. Eades, 12 mos. (and overtime $2.50)	1.400 00	
Fireman, Superintendent's Dept., labour	810 00	
	$12.928 70	
Less credits: Fuel, $8.85; cleaning, light, etc., $4.75; sale of scrap, $135	148 60	
		$12.780 10
		$124.642 02

VI. FACULTY OF HOUSEHOLD SCIENCE

103. Salaries

(a) Household Science:		
Miss Jessie Brodie, Professor (with rooms, heat and light valued at $280 per annum)	$4,000 00	
Assistant Professors:		
Miss Alice C. Willard	3,450 00	
Miss E. W. Park	2,700 00	
Lecturers (Sessional):		
Miss K. E. Bennett	2,500 00	
Miss J. S. Roberts	2,300 00	
Miss D. E. Mulholland	1,800 00	
Miss H. R. Coatsworth (part time)	1,000 00	
Assistants (Sessional):		
Miss F. E. Lamon	900 00	
Miss A. Musgrave	800 00	
Miss G. H. Donald, Research Assistant	1,000 00	
	$20,450 00	
Charged to Massey Treble Bequest	3,000 00	
		$17,450 00
(b) Food Chemistry:		
Dr. C. C. Benson, Professor, also Secretary of Faculty (with rooms, heat and light valued at $280)	$4,200 00	
Miss J. R. Panton, Lecturer (Sessional)	2,250 00	
Instructors (Sessional):		
Miss E. I. Walker	1,600 00	
Miss D. Lindsley (part time — paid also $475 as Clerical Assistant)	400 00	
Assistants (Sessional):		
Miss E. J. Reed	1,100 00	
Miss D. Chapman	900 00	
Miss M. M. McCarthy (4 mos., 1 week)	212 50	
		$10,662 50
		$28,112 50

104. Household Science Department

Laboratory supplies ($1,374.28):	
Acme-Farmers' Dairy, milk	$211 50
Canadian Laboratory Supplies, chemicals, etc	192 61
T. Eaton Co., mops, brushes, linen, etc	145 20
Lever Bros., soap	10 60
Nichols Chemical Co., acids	31 56
Alex. Provan, provisions	628 77
F. Simpson & Sons, meat	102 15
Accounts under $10 (7)	24 96
Sundry disbursements by department	19 03
Superintendent's Dept., material	7 90
Laboratory attendance ($1,521.66):	
Miss A. Conacher, 44 weeks, 2 days	693 66
Mrs. E. Stroud, 42 2/3 weeks	683 00
Mrs. E. Graham, 39 weeks	145 00
Equipment and incidentals ($151.51):	
Walter A. Carveth & Co., microscope repairs	20 00
Thos. Pocklington Co., overhauling balances, etc	36 00
Accounts under $10 (8)	39 11
Superintendent's Dept., freight, $10; labour, $41.10; material, $5.30	56 40
Books and special equipment ($650.44):	
British Cotton Industries Research Association	17 84
Canadian General Electric Co., irons	13 12
Canadian Westinghouse Co., irons	15 79
Walter A. Carveth & Co., microscope and parts	191 50
T. Eaton Co., curtains, linen, slip covers, chair, mattress, etc	255 88
J. B. Lippincott Co., books	10 04
McFarlane Mfg. Co., ironing stands	11 02
Nutrition Abstracts Review, subscription	10 61
Structo Mfg. Co., artcraft	10 77
Wistar Institute of Anatomy and Biology, subscription	11 17

University Press, books		24 28	
Accounts under $10 (19)		78 42	
		$3.697 89	
Less credits: Laboratory deposits	$204 37		
Charged to Massey Treble Bequest	650 44		
		854 81	
			$2,843 03

105. Food Chemistry Department

Maintenance ($825.85):		
British Drug Houses, chemicals	$12 79	
Canadian Kodak Co., chemicals	20 46	
Canadian Laboratory Supplies, filter paper and glassware	226 31	
Walter A. Carveth & Co., oil immersion lens	30 00	
Central Scientific Co., glassware, etc.	75 97	
T. Eaton Co., towels, brushes, etc.	24 78	
Leeds & Northrup Co., electrodes	21 08	
Nichols Chemical Co., acids, etc.	25 87	
Thos. Pocklington Co., balance repairs	27 65	
Service Station Equipment Co., refrigerator service	10 38	
Wilson Scientific Co., glassware, etc.	58 31	
University Press, printing and stationery	11 93	
Accounts under $10 (11)	41 32	
Sundry disbursements by department:		
Stationery, utensils, etc., $47.30; food supplies, $21.31	69 61	
Superintendent's Dept., labour, $94.82; material, $74.57	169 39	
Laboratory attendance ($1,082.37):		
Mrs. I. Scott, 42 weeks, 3 days	700 70	
Mrs. R. Berry, 38 weeks, 1 day	381 67	
	$1.908 22	
Less credit from laboratory deposits	149 75	
		$1,758 47

106. General Expenses

Stationery, printing, office supplies and incidentals ($284.03):		
D. Gestetner Ltd., paper	$11 10	
Postage	21 00	
Robbins & Townsend, typewriter inspection	18 90	
University Press, printing and stationery	205 78	
Accounts under $10 (3)	14 75	
Sundry disbursements by Secretary	12 50	
Clerical assistance ($1,662.50):		
Miss E. E. Cross, 10 mos.	1.100 00	
Miss D. Lindsley, 20 weeks (paid also in Food Chemistry)	500 00	
Miss D. Chapman, 1½ mos. (paid also in Food Chemistry)	62 50	
		$1,946 53

107. Household Science Building

Heat and light	$2.653 66	
Gas, $248.88; water, $341.55	590 43	
Caretaker's supplies:		
Superintendent's Dept., material	139 12	
Cleaning ($1,612.02):		
Advance Window Cleaning Co.	26 46	
Superintendent's Dept., labour	1.585 56	
Repairs and renewals ($1,150.94):		
Federal Floor Furnishing Co., surfacing gymnasium floor	27 98	
Johnson Temperature Regulating Co., heating system repairs	24 10	
Accounts under $10 (4)	20 35	
Superintendent's Dept., labour, $782.52; material, $295.99	1.078 51	
Sundries ($904.43):		
John Smith, settee repairs	18 00	
Window Shades & Fittings, supplying and installing ventilating skylight blinds	107 24	
Superintendent's Dept., labour, $399.94; material, $379.25	779 19	

Caretaker, A. J. Maycock (with rooms, heat and light valued at $420) (and overtime $70.50)		1.100 00	
		$8.150 60	
Less heat and light charged to Central Power Plant	$2,653 66		
Credit for cleaning	11 80		
Charged to Massey Treble Bequest	904 43		
		3.569 89	
			$4.580 71
			$39.241 29

XII. FACULTY OF FORESTRY

108. Salaries

Professors:		
C. D. Howe, Dean of the Faculty	$6,000 00	
J. H. White	4.800 00	
Associate Professors:		
T. W. Dwight	4.200 00	
Gordon G. Cosens	3.700 00	
R. C. Hosie, Assistant Professor	3.000 00	
F. S. Newman, Special Lecturer	25 00	
Miss G. McAree, Secretary in Dean's Office	1.200 00	
		$22,925 00

109. Maintenance of Department

Laboratory supplies and apparatus ($515.94):		
Photographic Service, prints, etc.	$21 95	
University Press, printing and stationery	23 05	
Accounts under $10 (15)	48 17	
Sundry disbursements by department:		
Stationery and subscription, $26.06; sundries, $12.59	38 65	
Superintendent's Dept., labour, $254.45; material, $129.67	384 12	
Office supplies, printing, Calendar, postage and incidentals ($396.71):		
Lowe-Martin Co., transfer cases	19 20	
Office Specialty Mfg. Co., book-ends, etc.	21 00	
Postage	50 00	
Robbins & Townsend, typewriter inspection	34 00	
Telfer Paper Box Co., filing boxes	33 16	
Underwood-Elliott-Fisher Ltd., repairs	11 53	
University Press, printing and stationery	212 51	
Accounts under $10 (2)	3 61	
Sundry disbursements by department	11 35	
Superintendent's Dept., material	35	
Collecting material for class work ($76.57):		
R. C. Hosie, travelling expenses	52 50	
Accounts under $10 (3)	24 07	
Laboratory assistance:		
Hugh Campbell, 42-2/3 weeks	372 00	
Practice Camp supplies, travel, etc. ($1.166.61):		
Disbursements through the Dean:		
Travelling and hotel expenses, $136.95; telephone, 50c; sundries, $12.76	150 21	
Alvin Dunne, travelling expenses re telephone construction work	28 51	
T. Eaton Co., bowls, jars, etc.	11 28	
C. H. Irwin, students' and instructors' board and use of canoes	851 30	
Lufkin Rule Co., log rules	38 95	
Northern Electric Co., wire, spikes, screws, etc.	49 92	
Accounts under $10 (8)	34 19	
Superintendent's Dept., labour	2 25	
	$2.527 83	
Less received from students for board	585 20	
		$1.942 63

110. Forestry Building

Heat and light		$883 42	
Gas, $9.22; water, $8		17 22	
Caretaker's supplies:			
Superintendent's Dept., material		70 44	
Cleaning ($306.82):			
Advance Window Cleaning Co.		14 70	
Allen Mfg. Co., laundry		6 36	
Superintendent's Dept., labour		285 76	
Repairs and renewals:			
Superintendent's Dept., labour, $194.58; material, $28.60		223 18	
Caretaker, E. G. Payne, 12 mos. (and overtime $75.50)		1.400 00	
		$2,901 08	
Less heat and light charged to Central Power Plant...	883 42		
Credit for cleaning, etc.	9 00		
		892 42	
			$2.008 66
			$26.876 29

XIII. FACULTY OF MUSIC

111. Salaries

Honoraria to Dean and Lecturers:		
Sir Ernest McMillan, Dean	$250 00	
H. A. Fricker	250 00	
Leo Smith	250 00	
Healey Willan	250 00	
J. Leland Richardson, Carillonneur	500 00	
Miss A. W. Patterson, Secretary to Faculty (paid also as President's Secretary)	250 00	
		$1,750 00

112. Maintenance of Department

Printing, Calendar, postage and incidentals:		
Heintzman & Co., piano rental	$26 50	
University Press, printing and stationery	180 52	
		$207 02
		$1,957 02

XIV. SCHOOL OF GRADUATE STUDIES

113. Salaries

G. S. Brett, Dean (see also Philosophy)	$1,000 00	
Miss N. MacKenzie, Secretary	2,000 00	
Miss D. R. Bond, Stenographer	950 00	
		$3.950 00

114. Maintenance of Department

Stationery and office supplies ($548.32):		
Office Specialty Mfg. Co., cabinet and cards	$131 70	
Postage	45 00	
University Press, printing and stationery	354 43	
Accounts under $10 (4)	17 19	
Clerical assistance:		
Miss Estelle Ridge, Secretariat, Board of Examiners for Professional Degrees, $50; postage, $1.11	51 11	
		$599 43
		$4,549 43

XV. SCHOOL OF NURSING

115. Salaries

Miss E. K. Russell, Director	$3,600 00
Miss F. H. M. Emory, Assistant Director	3,000 00
Lecturers and Instructors (Sessional):	
Miss W. L. Chute, Science and Nursing	2,200 00
Miss M. B. Millman, Public Health Nursing	2,100 00

Nursing:		
Miss D. M. Percy	2.100 00	
Miss N. D. Fidler	2.000 00	
Miss E. M. Stuart (resigned 31 March)	1.425 00	
Miss M. Jean Wilson (vice Miss Stuart) 3 mos. from 1 April. $270; Resident Nurse to 30 March. $630	900 00	
Miss E. N. L. Mortimer. Secretary-Librarian	1.800 00	
Miss M. G. Barnes, Clerical Assistant	1.140 00	
Miss Marion Waddell. Dietitian-Housekeeper (with living valued at $400) 10 mos.	900 00	
		$21.165 00

116. Special Teaching

Critic Teachers in City Schools. etc., for practice-teaching purposes ($448):	
Board of Education	$439 00
Separate School Board	9 00
University Departments and Special Lecturers ($4.042.85):	
School of Hygiene	400 00
Psychology	300 00
Anatomy	200 00
Physiology	200 00
Social Science	200 00
Lecturers:	
Dr. Norma H. C. Ford. Biology (see also department)	300 00
W. K. F. Kendrick, Science of Education (paid also $300 for Extension Work)	200 00
C. E. Phillips. Principles of Education (see also O. C. E.)	30 00
J. A. Long, for Refresher Course (see also O. C. E.)	30 00
Mrs. Florence E. Woodcock (see also University Extension)	75 00
Mrs. Jean Hampson (paid also $100 for Extension Work)	10 00
E. Fidlar, Physiology (see also department)	300 00
Medicine (see also department):	
Trevor Owen	115 00
H. A. Dixon	20 00
Beverley Hannah	210 00
J. H. Elliott	40 00
Gordon Bates	20 00
Alan Brown, Paediatrics (see also department)	160 00
Surgery (see also department):	
W. K. Welsh	115 00
A. W. Farmer	10 00
J. L. MacDonald	10 00
D. E. Robertson	20 00
R. M. Wansborough	10 00
H. B. Van Wyck, Obstetrics (see also department)	115 00
C. E. Hill, Ophthalmology (see also department)	30 00
Perry Goldsmith, Oto-Laryngology (see also department)	45 00
W. E. Brown ,Anaesthesia (see also department)	10 00
C. G. Stogdill, Mental Hygiene (see also Psychiatry)	100 00
J. T. Phair (Child Hygiene (see also School of Hygiene)	50 00
A. H. Sellars (see also School of Hygiene)	10 00
D. T. Fraser (see also School of Hygiene)	20 00
A. D. A. Mason, Oral Hygiene (see also Dentistry)	40 00
Harvey Agnew	20 00
Miss M. Bell	15 00
Miss E. Hickey	20 00
Miss Edna Moore	20 00
Miss E. deV. Clarke	15 00
Miss J. Knisely	15 00
Miss M. MacKay	10 00
W. J. Dobbie	30 00
L. A. Pequegnat	20 00
G. H. Stevenson (including travelling expenses. $6.10)	16 10
Miss Frances King (including travelling expenses $31.75)	81 75
Miss Gretta Ross	10 00
Miss B. Boulter	180 00
Miss D. E. Shantz	25 00

Hospitals and Public Health Organizations ($685):		
Miss Margaret Murray	180 00	
Victorian Order of Nurses	170 00	
Miss E. Longman	90 00	
Toronto General Hospital	70 00	
Canadian Red Cross Society	55 00	
Neighbourhood Workers' Association	40 00	
Toronto Western Hospital	40 00	
Brantford General Hospital	10 00	
Hamilton General Hospital	10 00	
St. Michael's Hospital	10 00	
St. Elizabeth Visiting Nurses' Association	10 00	
		$5.175 85

117. SCHOOL MAINTENANCE

Office supplies, printing, postage and incidentals ($753.34):		
D. Gestetner Ltd., ink and stencils	$51 54	
Grand & Toy, transfer cases, etc	11 05	
Office Specialty Mfg. Co., cabinet	35 50	
Postage	170 00	
Robbins & Townsend, typewriter inspection	11 40	
Miss H. Weeks, clerical assistance, 9 days	24 75	
University Press, printing and stationery	369 55	
Accounts under $10 (6)	35 07	
Sundry disbursements by Director:		
Stationery, $11.22; telegrams, etc., $18.04; sundries, $15.22	44 48	
Class room equipment and supplies, library and advertising ($444.05):		
Central Scientific Co., chemicals	15 62	
Clay, Adams Co., model	22 95	
T. Eaton Co., chairs, bed mattress, etc	120 04	
J. F. Hartz Co., trays, corks, forceps, etc	52 08	
Geo. M. Henry Co., blackboard	11 03	
Ingram & Bell, chemicals, thermometers, gauze, etc	16 05	
MacLean Publishing Co., advertising	37 80	
Physicians' Record Co., books	20 04	
University Press, printing and stationery	19 10	
Accounts under $10 (28)	105 61	
Sundry disbursements by Director:		
Drugs, $11.59; pamphlets and sundries, $12.14	23 73	
Graduation expenses and fellowship payments ($182.68):		
Birks, Ellis, Ryrie Ltd., graduation pins	67 50	
Accounts under $10 (4)	15 18	
Internships:		
Miss Isobel Hobbs	50 00	
Miss Marion Tresidder	50 00	
Travelling and entertainment, extra-curricular activities, and physical examination for domestic staff ($207.81):		
Home Smith & Co., suppers	20 00	
Star Taxi Co., taxis	17 60	
F. Sylvester, musical services	60 00	
Travelling expenses:		
Miss Florence H. M. Emory	10 00	
Miss B. M. Millman	13 25	
Miss E. K. Russell	49 25	
Accounts under $10 (7)	37 71	
		$1.587 88

118. RESIDENCE MAINTENANCE

Residence Physician:		
Dr. J. G. Falconer	$200 00	
Wages, food, laundry and miscellaneous ($11,527.22):		
Pay lists, wages of maids, etc	3,779 60	
B. Amodeo & Son, fruit and vegetables	100 45	
Bowes Co., butter	171 13	
Bredin's Bread	45 39	
Canada Bread Co	217 07	
Canada Packers Ltd., meat, etc	781 29	
Christie's Biscuits	115 28	
Club Coffee Co., tea	61 20	
Coles Ltd., cakes, etc	18 50	

Donlands Dairy	725 37	
T. Eaton Co., kitchen utensils and provisions	151 24	
John J. Fee, eggs	247 95	
S. Gumpert Co., jelly powders	25 00	
Samuel Harris, meat	386 17	
Ingram & Bell, chemicals and drugs	16 90	
Kelvinator of Canada, refrigerator repairs	23 58	
Kraft Distributors Ltd., cheese	19 66	
Kraft Pheonix Cheese Co., cheese	15 55	
Langley's Ltd., cleaning rugs and curtains	70 20	
Loblaw Groceterias, provisions	1,460 39	
Michie & Co., provisions	53 56	
Wm. Neilson Ltd., ice cream	121 79	
Nicolo's Fruit Store, fruit and vegetables	424 15	
Pacific Mills, paper	14 00	
Parisian Laundry	425 18	
St. Lawrence Fish Market	92 86	
Robt. Simpson Co., labels and coffee	12 02	
Slichter's Ltd., flowers	39 90	
Standard Brands, coffee	128 66	
Wm. Unser, cakes	105 18	
White & Co., fruit and vegetables	606 22	
John Wickson, meat	657 69	
G. H. Wood & Co., paper dishes, drinking cups, and napkins	92 56	
Accounts under $10 (16)	49 57	
Sundry refunds of fees:		
Miss J. E. Ives	55 00	
Miss E. Jones	35 00	
Miss G. Ross	5 00	
Miss J. E. Watson	75 00	
Sundry disbursements by Director:		
Hardware, $17.77; food, wages and drugs, $31.75; sundries, $28.93	78 45	
Superintendent's Dept., labour, $21.26; material, $2.25	23 51	
Furnishings ($1,211.59):		
Canadian Tumbler Co., tumblers	43 05	
T. Eaton Co., radio, curtains, furniture, upholstering, etc.	1,133 00	
Robt. Simpson Co., pyrex, linens, etc.	11 93	
Superintendent's Dept., labour, $4.43; material, $19.18	23 61	
		$12,938 81

119. Contingencies

(nothing spent)

120. Maintenance of Building (No. 7 Queen's Park)

Fuel ($1,236.15):		
Department of Public Works	$1,200 00	
Elias Rogers Co.	36 15	
Water, $169.42; electric current, $462.81; gas, $340.19	972 42	
Caretaker's supplies:		
Superintendent's Dept., material	225 00	
Repairs and renewals ($1,565.48):		
Wm. Bartlett & Son, shades	14 25	
Builders' Supplies Ltd., flagstone and plaster	18 52	
C. A. Dunham, assembling pump	27 22	
Fitzgerald-McAvoy Ltd., screen guards	24 50	
B. W. Miller & Co., plants	24 45	
Routery Bros., plaster repairs	130 80	
Superintendent's Dept., labour, $869.92; material, $455.82	1,325 74	
Sundries:		
Bell Telephone Co., service	457 63	
Grounds ($100):		
F. Hogg Nursery Co., bulbs, etc.	17 60	
W. P. Warner, fertilizer	15 00	
Superintendent's Dept., labour	67 40	
Caretaker, T. Marriott, 12 mos.	1,260 00	
		$5,816 68
		$46,684 22

Charged to Revenue, 1937-38		$7.500 00
Charged to Rockefeller Fund		39,184 22
		$46,684 22

XVI. SOCIAL SCIENCE

121. Salaries

A. E. Grauer, Director and Professor	$4,500 00	
Miss A. C. McGregor, Assistant Director	2,400 00	
Miss Barbara Finlayson, Lecturer (Sessional)	2,400 00	
D. G. McCullagh, Assistant (Sessional)	1.500 00	
Miss E. B. Bambridge, Secretary-Librarian	1,400 00	
Special Lecturers (Sessional):		
Miss K. Gorrie	150 00	
Miss F. Held	150 00	
R. E. Mills	150 00	
Miss N. Lea	110 00	
G. B. Chisholm	80 00	
St. George's School for Child Study	75 00	
School of Nursing	75 00	
Miss M. Bell	60 00	
Miss Charlotte Whitton	50 00	
Mrs. Helen Lawrence	45 00	
M. M. Cohn	25 00	
Miss M. Gould	25 00	
R. S. Hosking (paid also in Dentistry)	15 00	
K. H. Rogers (paid also in Psychology)	10 00	
W. G. Scott	5 00	
H. C. Cruikshank	20 00	
	$13,245 00	
Less paid by School of Nursing	200 00	
		$13,045 00

122. Maintenance of Department

Office supplies, printing, Calendar, postage and incidentals ($670.90):		
T. Eaton Co., chair, pad, frames, etc.	$36 40	
Postage	103 00	
Robbins & Townsend, typewriter inspection	13 30	
Travelling and field work expenses:		
Miss Barbara Finlayson	10 15	
Miss A. C. McGregor	11 23	
University Press, printing and stationery	315 35	
Accounts under $10 (8)	23 96	
Sundry disbursements by department:		
Books, $10.68; stationery, postage, etc., $21.18; telegrams, etc., $19.43; sundries, $13.92	65 21	
Superintendent's Dept., labour, 70c; material, 01c	71	
Clerical assistance:		
Miss E. H. Bayes, 2 weeks, 1 day	32 76	
Mrs. Lillian Kay, 3 weeks, 2 days	58 83	
Library ($153.52):		
Department of Labour, book	20 00	
University Library, books replaced	11 21	
University Press, printing and stationery	22 30	
Accounts under $10 (25)	100 01	
		$824 42
		$13.369 42

XVII. UNIVERSITY EXTENSION AND PUBLICITY

123. Salaries

W. J. Dunlop, Director	$5.250 00	
B. W. Sharpe, Assistant Director	2.700 00	
Assistants:		
Miss D. deF. Milner (paid also $70.50 as Attendant, Evening Classes)	1,400 00	
Mrs. M. Joyce J. Mudge	1,350 00	
Miss Grace Anderson	1,350 00	

Mrs. H. G. Petersen. Clerk (paid also $93 as Attendant, Evening Classes)	1,300 00	
Stenographers:		
Miss L. B. Alexander (paid also $72 as Attendant, Evening Classes)	1,050 00	
W. A. Munro (paid also $84 as Attendant, Evening Classes)	1,050 00	
Mrs. Annie D. Beacock (paid also $78 as Attendant, Evening Classes)	1,000 00	
R. P. Brown, 11 mos. (paid also $85 as Attendant, Evening Classes)	916 67	
W. John Dunlop (paid also $84 as Attendant, evening Classes)	1,000 00	
Workers' Educational Association Assistant, Drummond Wren. (@ $2,500 paid from Special Fund)	....	
		$18,366 67

124. EXTENSION AND PUBLICITY DEPARTMENTS

(a) Extension:

Instructors ($47,452.82):

D. S. Ainslie	$535 00
E. A. Allcut	200 00
J. M. Anderson	300 00
J. G. Andison	426 00
R. G. Armour	40 00
G. L. Assie	320 00
H. deW. Ball	150 00
W. G. Baird	52 50
W. Banton	20 00
L. S. Beattie	71 00
W. H. Becking	150 00
W. G. Bennett	162 50
K. S. Bernhardt	520 00
A. E. Berry	10 00
A. E. Birney	300 00
V. W. Bladen	75 00
H. Boeschenstein	500 00
W. E. Blatz	50 00
E. H. Botterell	20 00
Miss E. Bowling	50 00
R. Brauer	300 00
G. S. Brett	100 00
E. K. Brown	300 00
G. W. Brown	342 00
S. D. Brown	10 00
W. J. Brown	184 50
C. Buck	200 00
M. A. Campbell	10 00
J. Cano	200 00
E. W. Carpenter	150 00
W. R. Castell	300 00
H. B. Chalmers	10 00
S. N. F. Chant	400 00
W. H. Clawson	560 00
Miss K. H. Coburn	200 00
Miss A. Cochrane	150 00
V. F. Coe	247 50
Miss A. Cole	308 00
R. S. Colter	10 00
G. P. Cosgrave	422 00
D. G. Creighton	75 00
A. G. Croal	27 00
F. R. Crocombe	50 00
R. M. Dawson	10 00
T. M. Dean	20 00
V. de Beaumont	420 00
St. E. de Champ	200 00
S. S. Dhani (including expenses $94.05)	569 05
Miss D. J. Dobbie	10 00
Rev. J. W. Dore	388 00
J. R. Dymond	10 00
J. H. Elliott	30 00
J. M. Elson	800 00
N. J. Endicott	452 00
B. R. English	150 00

J. G. Falconer	50 00
W. S. Ferguson	20 00
J. Finkelman	210 00
A. A. Fletcher	20 00
Miss J. M. Forster	150 00
Mrs. R. M. Franks	200 00
W. G. Frisby	400 00
W. J. Gardiner	500 00
Rev. E. C. Garvey	420 00
G. P. deT. Glazebrook	360 00
T. B. Godfrey	200 00
E. Goggio	200 00
Dr. Edith H. Gordon	19 00
Miss Christine Graham	25 00
Miss M. C. Graham	40 00
H. A. Grainger	75 00
R. R. Grant	200 00
L. A. Haak	200 00
Miss J. Hampson	100 00
C. W. M. Hart	200 00
H. G. Harvey	106 00
J. F. Heard	210 00
A. S. Hill (including expenses $109)	309 00
G. E. Hobbs	100 00
F. S. Hogg	210 00
Miss R. M. Home	190 00
F. J. Horwood	410 00
R. S. Hosking	200 00
Hospital for Sick Children	30 00
J. A. Houpert	300 00
J. E. Howes	10 00
G. W. Howland	60 00
H. L. Humphreys	420 00
M. Inman (including expenses $34)	234 00
G. W. Jacobi	10 00
E. Johnson	200 00
W. K. F. Kendrick	200 00
J. D. Ketchum	10 00
F. H. Kirkpatrick	400 00
Miss C. Krieger	28 00
A. Lacey	350 00
V. Lange	200 00
B. Laskin (including expenses $75.45)	625 45
Miss N. Lea	100 00
W. J. LeRay	15 00
Miss Helen P. LeVesconte, 8 mos.	1,000 00
F. I. Lewis	20 00
W. Line	300 00
A. Lismer	200 00
Miss I. Loudon	640 00
W. J. Lougheed	66 00
R. N. McCormick	10 00
W. J. McCurdy	620 00
E. W. Macdonald	300 00
J. F. Macdonald	580 00
J. L. McDonald	40 00
Miss M. D. MacDonald	200 00
W. L. Macdonald	420 00
D. J. McDougall	360 00
J. R. MacGillivray	404 00
E. W. McInnis	820 00
J. C. McInnis	400 00
W. A. McKague	10 00
L. A. MacKay	430 00
C. D. McKinnon	10 00
Miss A. T. McLachlan	300 00
G. A. McMullen	600 00
Miss Helen McMurrich	200 00
C. B. Macpherson	50 00
S. F. Maine (including expenses $6.80)	46 80

C. Marchant	100 00
H. C. H. Miller	200 00
J. H. Mills	63 00
A. Moellman	50 00
L. T. Morgan	200 00
N. L. Murch	114 00
C. R. Myers	720 00
J. A. Newcombe	340 00
Miss O. Noble	300 00
Mrs. M. L. Northway	200 00
T. W. Oates	106 50
V. J. Okulitch	200 00
Ontario College of Art	300 00
J. F. Parkinson	420 00
Miss A. H. Parsons	400 00
Miss V. Peene	200 00
J. G. Perold	180 00
W. C. Perron	200 00
C. R. Philp (including expenses $30)	230 00
A. Pitt	170 00
A. F. W. Plumptre	225 00
I. R. Pounder	376 00
R. A. Preston	285 00
G. Price (including expenses $38.65)	238 65
A. E. Prince	200 00
D. F. Putnam (paid also as Class Assistant)	75 00
W. H. Rapson	100 00
A. L. Richardson	200 00
R. Richmond	75 00
E. C. Robertson	200 00
J. D. Robins	200 00
K. H. Rogers (including expenses $36.90)	236 90
Miss E. M. Rutledge	66 50
J. R. Ryan	200 00
M. D. Salter	100 00
J. Satterly	200 00
R. M. Saunders	378 00
C. Silvertz (including expenses $63.42)	263 42
H. L. Seymour	200 00
Miss Rebecca Shilton, 8 mos	1,800 00
A. A. Shuyler	200 00
Miss E. K. Sims (paid also as Class Assistant)	256 00
Dr. Florence A. Smith	720 00
G. O. Smith	150 00
H. T. Sprang	10 00
G. H. Stevenson (including expenses $25.55)	185 55
St. George's School for Child Study	400 00
St. John's Ambulance Association	177 00
M. D. C. Tait	470 00
Griffith Taylor	300 00
T. M. C. Taylor	440 00
Miss D. A. Thompson	60 00
J. E. Thomson	100 00
S. C. Thompson	160 00
Toronto Conservatory of Music	200 00
G. H. Turner (paid also as Class Assistant)	200 00
Miss M. E. G. Waddell	420 00
W. J. Waines	420 00
A. B. Ward	200 00
L. Warshaw (including expenses $77.20)	477 20
E. T. Waters	350 00
M. Barry Watson	200 00
F. J. Westcott (including expenses $45.50)	707 50
B. Wilson (including expenses $11.40)	61 40
J. D. Wilson (including expenses $84.90)	284 90
Mrs. Florence E. Woodcock, 8 mos	1,200 00
Mrs. A. R. Whittemore	20 00
Miss C. E. Whitton	30 00
D. C. Williams	200 00
A. Wingfield	200 00

M. Winspear	200 00
G. M. Young	10 00
A. R. Zimmer	10 00
Class Assistants ($1,775):	
G. Berry	100 00
Miss M. Brookstone	240 00
A. H. Clarke	120 00
M. K. Macdonald	160 00
V. B. Meen	50 00
Miss F. S. Patterson	150 00
D. F. Putnam (see also above)	185 00
N. W. Radforth	150 00
L. S. Russell	160 00
Miss E. K. Sims (see also above)	120 00
G. H. Turner (see also above)	150 00
Miss D. M. Walker	150 00
W. Wightman	40 00
Reader. D. C. Williams	200 00
Attendants ($1,751.13):	
Miss L. B. Alexander	72 00
A. Bain	147 50
Mrs. A. D. Beacock	78 00
Miss J. Bemrose	12 00
R. P. Brown	85 50
A. Clarke	152 00
W. John Dunlop	84 00
Mrs. C. C. Grant	78 00
Miss D. Haggart	30 00
J. Harding	117 25
Miss M. Hargreaves	52 50
R. Hill	10 50
A. Keel	83 50
J. McCormack	126 75
A. J. Maycock	22 25
Miss D. deF. Milner	70 50
W. A. Munro	84 00
E. G. Payne	70 50
Mrs. H. G. Petersen	93 00
Mrs. M. Thomas	21 75
G. Town	63 00
W. Van Ark	79 25
W. V. Walker	42 00
A. Worsley	22 50
Sundry persons	52 88
	$51,178 95

APPORTIONMENT OF THE FOREGOING

	Summer Session Arts	Teachers' Classes	Correspondence Courses	Evening Classes	W. E. A. etc.	Short Courses	Occupational Therapy	Physio-Therapy
Instructors	$ 9,440 00	$7,512 50	$3.671 50	$11.694 00	$6,950 00	$80 00	$3,490	$3.882
Class Assistants	600 00	1,175 00						
Readers		200 00						
Attendants	32 50	348 10		1,110 78	259 75			
Travelling Expenses		45 50			687 32			
	$10.072 50	$9.281 10	$3,671 50	$12.804 78	$7.897 07	$80 00	$3.490	$3.882

Remuneration to Instructors, Attendants and travelling expenses, as detailed above	$51.178 95
Sundry expenses ($842.12):	
Evening Classes:	
Superintendent's Dept., labour, $250.04; material. $1.46	260 50
Occupational Therapy:	
Superintendent's Dept., labour, $259.04; material. $1.46	260 50

Physiotherapy:	
Allen Mfg. Co., laundry	8 07
John A. Madden, loom repairs	60 00
Madsen Mfg. Co., gymnasium and massage, plinths	485 00
Social functions for Courses and Classes ($183.25):	
Geo. Coles Ltd., catering	150 00
University Women's Club	33 25
Books for loan to Extension students ($95.62):	
Ryerson Press	32 20
Accounts under $10 (15)	63 42
Office expenses ($2,742.13):	
C. P. R. Telegraphs	17 32
D. Gestetner Ltd., ink, paper and pencils	1,015 26
Grand & Toy, desk	32 00
Leatherdale Studio, prints	5 00
Postage	615 00
Robbins & Townsend, typewriter inspection and overhauling	132 30
University Press, printing and stationery	865 09
Sundry disbursements by Director:	
Carfare, $7.25; telegrams, etc., $28.32; sundries, $9.60	45 17
Superintendent's Dept., labour, $14.32; material, .67c	14 99
Extra clerical assistance ($870.67):	
Mrs. C. C. Grant, 41 weeks, 5 days	670 67
Miss D. Haggart (paid also in Bursar's Office) 12½ weeks	200 00
	$55,912 74
(b) Publicity:	
Advertising and announcements ($1,588.55):	
American Physical Society	$10 00
Ashbury College	15 00
Belleville Collegiate and Vocational School	10 00
Canadian Association of Occupational Therapy	40 00
Canadian Association of Social Workers	12 00
Canadian Federation of University Women	20 00
Canadian Newspaper Service	49 00
Canadian Public Health Association	22 50
Canadian Society of Forest Engineers	50 00
Cap & Gown	15 00
College Times, Upper Canada College	15 00
Curtain Call	12 00
Daily Times-Journal	27 60
Dufferin School Old Boys' Association	15 00
Educational Courier	28 00
Educational Publishing House	24 00
Evening Telegram	210 95
Freemason	20 00
Glebe Collegiate Institute	15 00
Globe & Mail	174 10
Globe Printing Co.	27 95
Greenway Press	26 00
Hamilton Normal School	10 00
Humberside Collegiate	20 00
Kitchener & Waterloo Collegiate	15 00
Labour Leader	20 00
Legionary	26 25
Lisgar Collegiate Institute	26 00
Masonic Sun	25 00
News Chronicle Publishing Co.	30 20
North Bay Nugget	10 50
Ontario Curling Association	25 00
Ontario School Trustees & Ratepayers Association	25 00
Peterboro Collegiate & Vocational School	12 50
Sault Ste. Marie Collegiate Institute	10 00
"The School," Ontario College of Education	30 00
"The Torch," Normal School, Ottawa	12 00
Toronto Daily Hebrew Association	10 00
Toronto Normal School	20 00
Toronto Daily Star	198 55
"The Twig"	11 00
Wilson Publishing Co.	17 00

Accounts under $10 (31)		195 45	
Issue of University bulletins, exhibits and other forms of publicity ($4.059.66):			
Alumni Federation, reprints and announcements		139 00	
Art Gallery of Toronto, portion of cost of catalogue re exhibit by Department of Fine Art		250 00	
Canadian Press Clipping Service		35 00	
International Press biographies for "Who's Who"		196 00	
Photographic Service, slides and prints		111 20	
Postage		1.030 00	
Services in connection with exhibit at Canadian National Exhibition:			
S. Collins, 129 hours		64 50	
J. Hillier, 62 hours		31 00	
A. Owen, 74 hours		37 00	
J. O. Wilhelm, 71 hours, $35.50; use of car, $6		41 50	
A. Woodcock, 40 hours		20 00	
University Press, printing and stationery		1.950 04	
Accounts under $10 (3)		17 25	
Superintendent's Dept., labour, $113.85; material, $23.32		137 17	
Travelling expenses of organizers and speakers:			
W. J. Dunlop		230 45	
		$61,791 40	
Less credit from sale of bulletins, star maps, etc		915 36	
			$60.876 04
			$79.242 71

XVIII. MEN'S RESIDENCES

125. MAINTENANCE OF BUILDINGS

(a) University (North, East and South Houses):			
Heat and light		$3,343 20	
Fuel:			
P. Burns & Co		60 60	
Water		177 74	
Caretaker's supplies ($545.58):			
Electrolux Ltd., vacuum cleaner repairs		1 00	
Superintendent's Dept., material		544 58	
Cleaning and house service ($6,792.84):			
Allen Mfg. Co., laundry		473 77	
Superintendent's Dept., labour		6,319 07	
Repairs and renewals ($3,313.38):			
Wm. Bartlett & Sons, shades		18 43	
T. Eaton Co., couch and chairs		213 15	
Routery Bros., plaster repairs		93 90	
Robt. Simpson Co., mattresses, etc		204 00	
Accounts under $10 (2)		12 34	
Superintendent's Dept., labour, $1.659.99; material, $1.111.57		2,771 56	
Caretaker H. Brown, 12 mos		1.300 00	
		$15,533 34	
Less heat and light charged to Central Power Plant	$3,343 20		
Credit from sale of furniture, cleaning, etc	302 99		
		3.646 19	
			$11.887 15
(b) University College (No. 73 St. George Street):			
Light		$219 20	
Fuel ($707.63):			
P. Burns & Co		121 20	
Central Coal Co		586 43	
Gas, $11.58; water, $58.90		70 48	
Caretaker's supplies:			
Superintendent's Dept., material		120 53	
Cleaning and house service ($2,174.31):			
Allen Mfg. Co., laundry		134 88	
Superintendent's Dept., labour		2.039 43	

Repairs and renewals ($608.68):			
John Smith, furniture repairs		7 00	
Superintendent's Dept., labour, $429.76; material, $171.92		601 68	
		$3.900 83	
Less light charged to Central Power Plant	$219 20		
Credit for repairs	13 34		
		232 54	
			$3.668 29
			$15.555 44

XIX. WOMEN'S RESIDENCES AND UNION

126. Maintenance of Buildings

Whitney Hall:		
Heat and light	$5.059 44	
Fuel ($141.90):		
P. Burns & Co.	91 05	
Central Coal Co.	31 10	
Elias Rogers Co.	19 75	
Gas, $429.24; water, $476.31	905 55	
Repairs and renewals ($2.556.69):		
Kelvinator Ltd., refrigerator repairs	143 25	
R. Laidlaw Co.	15 00	
Edward Milner, refrigerator lining	118 80	
H. W. Petrie Co., boiler and incinerator repairs	28 93	
Routery Bros., plaster repairs	16 55	
Accounts under $10 (3)	15 06	
Superintendent's Dept., labour, $1,752.46; material, $466.64	2.219 10	
Furnace and boiler man:		
Superintendent's Dept., labour	293 73	
	$8.957 31	
Less heat and light charged to Central Power Plant	5.059 44	
		$3.897 87
92 and 94 St. George Street:		
Fuel ($742.81):		
P. Burns & Co.	$141 60	
Central Coal Co.	588 31	
Elias Rogers Co.	10 00	
Superintendent's Dept., labour, $2.25; material, 65c	2 90	
Gas, $36.20; electric current, $120.82; water, $50.27	207 29	
Repairs and renewals ($909.65):		
Wm. Bartlett & Son, shades	4 92	
Routery Bros., plaster repairs	19 85	
Superintendent's Dept., labour, $607.77; material, $277.11	884 88	
Furnace and boiler man:		
Superintendent's Dept., labour	127 51	
		$1.987 26
49 St. George Street:		
Fuel ($435.29):		
P. Burns & Co.	$81 10	
Central Coal Co.	333 89	
Elias Rogers Co.	19 85	
Superintendent's Dept., labour, 25c; material, 20c	45	
Gas, $22.72; electric current, $121.96; water, $33.54	178 22	
Repairs and renewals ($454.41):		
Wm. Bartlett & Son, shades	12 61	
City Treasurer, water service construction	89 48	
Superintendent's Dept., labour, $273.43; material, $78.89	352 32	
Furnace and boiler man:		
Superintendent's Dept., labour	71 28	
		$1,139 20
University College Women's Union:		
Heat and light	$1.001 61	
Fuel ($22.38):		
Elias Rogers Co.	20 50	
Superintendent's Dept., labour	1 88	
Gas, $105.67; water, $63.87	169 54	

Repairs and renewals ($743.33):		
Robt. Simpson Co., linoleum repairs	11 10	
Accounts under $10 (2)	7 80	
Superintendent's Dept.. labour, $553.22; material, $171.21	724 43	
Caretaker, Leo Cole, 12 mos	1,350 00	
	$3.286 86	
Less heat and light charged to Central Power Plant	1,001 61	
		$2,285 25
		$9.309 53

127. Housekeeping Account

(a) Combined General Charges:		
Provisions ($23.309.20):		
Acme-Farmers' Dairy	$2,164 42	
B. Amodeo & Son, fruit and vegetables	2.868 55	
Arcade Florist, flowers	59 90	
Barker's Bread	261 74	
Belle-Ewart Ice & Fuel Co., ice	41 10	
J. Blood, meat and provisions	31 54	
Bowes Ltd.. butter and provisions	416 38	
Bredin's Bread	65 88	
Canada Bread Co	275 61	
Canada Dry Ginger Ale Ltd	121 55	
Canada Packers Ltd	5.125 88	
Christie, Brown & Co., biscuits	84 05	
City Dairy	428 36	
Geo. Coles Ltd., cake and biscuits	14 65	
Everest Bros., fruit and vegetables	194 58	
John F. Fee, eggs	672 75	
Haeberlin's Swiss Bakery, confectionery	57 39	
G. C. Hardy, cheese	103 25	
Samuel Harris, meat and cheese	811 69	
H. J. Heinz & Co., canned goods	110 56	
Harry Horne Co., jelly powder	88 05	
Frank Hunnisett, Jr., meat	41 67	
Hunt's Ltd., confectionery	46 02	
Ideal Bread Co	554 96	
Loblaw Groceterias, provisions	1,566 94	
James Lumbers Co., tea	312 00	
McCormick Mfg. Co., biscuits	320 91	
D. McIntyre Co., fish	236 07	
MacIver Co., meat	789 11	
National Grocers Co., provisions	3.369 64	
Wm. Neilson Ltd., ice cream	590 72	
Ontario Honey Producers, honey	27 75	
Purity Bread	96 94	
Red Wing Orchards, apples and juice	37 90	
Sani-Sealed Dairies	367 80	
M. J. Smith, fruit and vegetables	68 53	
Watson Food Products, potato chips	56 80	
F. Wells & Sons, poultry	623 89	
George Weston Ltd., biscuits	79 15	
George Weston Bread & Cake Co., bread	72 46	
Accounts under $10 (9)	52 06	
Cleaning and house service ($7,752.49):		
Baker Carpet Cleaning Co., cleaning drapes	28 40	
T. Eaton Co., cleaning supplies, etc	80 57	
Miss Marion B. Ferguson, sundry disbursements	16 91	
A. Guinness & Co., paper doilies, napkins, etc	90 73	
Dr. H. Gibson Hall, medical examination of maids	24 00	
Robt. Simpson Co., sheeting	26 55	
Stewart-Le Grice Ltd., candles	16 80	
J. T. B. Sweetman & Son, silver polish	12 00	
Accounts under $10 (2)	8 50	
Pay lists, wages of maids, etc	7.421 32	
Superintendent's Dept., labour, $25.85; material, .86c	26 71	
Furnishings and sundry renewals ($923.69):		
Canadian Wm. A. Rogers Ltd., silverware	72 14	

Cassidy's Ltd., dishes and glassware			207 07	
T. Eaton Co., table linen, utensils, etc.			371 07	
Hobart Mfg. Co., mixer parts			6 25	
Persian Arts & Crafts, samover repairs			10 00	
Robt. Simpson Co., silverware repairs and towelling			60 70	
Wrought Iron Range Co., pots, knives, brushes, etc.			37 80	
Superintendent's Dept., labour, $147.96; material, $10.70			158 66	
Office supplies, infirmary service, etc. ($166.51):				
T. Eaton Co., medical supplies, pencils, pads, etc.			27 75	
Miss Marion B. Ferguson, disbursements: Telegrams, etc., $4.67; drugs, etc., $11.13; postage, $25			40 80	
Office Specialty Mfg. Co., cabinet			17 87	
University Press, printing and stationery			51 56	
Accounts under $10 (6)			28 53	
Staff salaries (additional to Dean of Women charged under University College General):				
Dietitians (with living valued @ $400 each):				
Miss J. Barber, 12 mos.		$1,700 00		
Miss V. R. Murphy, 12 mos.		1,000 00		
Summer Assistant:				
Miss Ruth Jenkins, 2 weeks		32 00		
Miss Margery Porter, 4½ weeks		72 00		
Miss M. Russell, 9 weeks, 1 day		138 29		
Secretary-Hostess, Mrs. L. R. Howard, 12 mos. (with living valued @ $400)		1,000 00		
Nurse-Housekeeper, Mme. J. Ledoux, 12 mos. (with living valued @ $400)		1,000 00		
		$4,942 29		
Charged as follows:				
Combined General Charges	$3.942 29			
Women's Union	400 00			
Whitney Hall	600 00			
			3.942 29	
			$36.094 18	
Less credits: Napkin rings, keys, etc.			6 50	
				$36,087 68
(b) University College Women's Union:				
Cleaning and house service ($1,579.09):				
Arts & Crafts, cleaning rugs			$27 68	
Baker Carpet Cleaning Co., cleaning drapes, mattresses, etc.			74 00	
Miss Marion B. Ferguson, disbursements: Drugs, $7.70; postage, $13.70; sundries, $8.25			29 65	
Langley's Ltd., cleaning drapes			96 69	
Parisian Laundry Co.			122 08	
Toronto Window Shade Cleaning Co.			12 00	
Accounts under $10 (3)			15 68	
Pay lists, wages of maids, etc.			960 44	
Superintendent's Dept., labour, $57.58; material, $183.29			240 87	
Furnishings and sundry renewals ($548.88):				
Brown's Upholstery, chesterfield and chairs repaired			63 81	
Heintzman & Co., piano and bench, $245; tuning, $5			250 00	
Robt. Simpson Co., curtains, linen, etc.			195 78	
Turco-Persian Rug Renovating Co., rugs, repaired			19 65	
Accounts under $10 (3)			18 40	
Superintendent's Dept., material			1 24	
Piano, magazines, etc. ($42.90):				
T. Eaton Co., magazines, etc.			21 15	
Miss Marion B. Ferguson, petty disbursements			2 50	
Heintzman & Co., piano tuning and moving			17 50	
A. J. Sherman, cartage			1 75	
Share of salaries detailed under Combined General Charges			400 00	
				$2.570 87
(c) Whitney Hall:				
Cleaning and house service ($7,877.25):				
Advance Window Cleaning Co.			$39 20	
T. Eaton Co., cleaning supplies			27 84	
Miss Marion B. Ferguson, sundry disbursements			24 74	
Hoover Co., vacuum cleaner repairs			18 60	

Langley's Ltd., curtains and drapes cleaned	209 48	
Parisian Laundry Co	1,124 49	
Singer Sewing Machine Co., machine repairs and hemstitching	13 38	
Accounts under $10 (3)	6 55	
Pay lists, wages of maids, etc	5,487 17	
Superintendent's Dept., labour, $378.12; material, $547.68	925 80	
Furnishings and sundry renewals ($1,201.38):		
Brown's Upholstery, chesterfield and chairs repaired, etc	293 78	
T. Eaton Co., linen, utensils, etc	181 63	
Lionel Rawlinson, refinishing furniture	60 00	
Robt. Simpson Co., material, linens, etc	533 50	
Ward, Price Ltd., rug	31 00	
Accounts under $10 (2)	7 45	
Superintendent's Dept., labour, $59.69; material, $34.33	94 02	
Piano, magazines, etc. ($24.83):		
Miss Marion B. Ferguson, sundry disbursements	2 33	
Heintzman & Co., piano tuning	22 50	
Share of salaries detailed under Combined General Charges	600 00	
	$9,703 46	
Less credit from students' damages, etc	350 42	
		$9,353 04
(d) 94 St. George Street:		
Cleaning and house service ($1,576.60):		
Allen Mfg. Co., laundry	$120 80	
Baker Carpet Cleaning Co., chesterfield and chairs cleaned	43 60	
T. Eaton Co., cleaning supplies	18 17	
Langley's Ltd., rug and chair cleaned	45 59	
Persian Arts & Crafts, rugs washed	12 38	
Toronto Window Cleaning Co	10 00	
Accounts under $10 (2)	6 05	
Pay lists, wages of maids, etc	1.190 07	
Superintendent's Dept., labour, $9.42; material, $120.52	129 94	
Furnishings and sundry renewals ($391.15):		
Brown's Upholstery, mattresses	70 56	
T. Eaton Co., linen	26 01	
Robt. Simpson Co., beds, linen and curtains	280 10	
Accounts under $10 (2)	14 48	
Piano:		
Heintzman & Co., tuning	7 50	
Meals for Resident Head	144 00	
		$2.119 25
(e) 49 St. George Street:		
Cleaning and house service ($904.44):		
Allen Mfg. Co., laundry	$66 11	
Baker Carpet Cleaning Co., drapes cleaned	24 80	
T. Eaton Co., cleaning supplies	13 25	
Langley's Ltd., rugs and curtains cleaned	27 94	
Accounts under $10 (3)	19 54	
Pay lists, wages of maids, etc	697 55	
Superintendent's Dept., labour, $27.50; material, $27.75	55 25	
Furnishings and sundry renewals ($205.63):		
Brown's Upholstery, chairs and sofa repaired	91 05	
T. Eaton Co., linen, etc	40 37	
Robt. Simpson Co., linen, fabric, etc	51 35	
Ward, Price Ltd., rug	15 00	
Accounts under $10 (2)	7 86	
Piano:		
Heintzman & Co., tuning	7 50	
		$1,117 57
		$51.248 41
		$60,557 99

XX. 128. CENTRAL POWER PLANT

Fuel ($83.831.46):		
British American Oil Co.	$190 00	
Cities Service Oil Co.	150 00	
Imperial Oil Ltd.	140 00	
McColl-Frontenac Oil Ltd.	150 20	
Milnes Coal Co.	83.189 13	
Superintendent's Dept., labour, $6.88; material, $5.25	12 13	
Hydro-Electric current, $28,136.67; water, $545.36	28.682 03	
Repairs and renewals, engineers' supplies and miscellaneous items ($12.031.95):		
D. Anderson, valves	12 05	
Babcock-Wilcox & Goldie-McCulloch, furnace parts	262 26	
Beldam's Asbestos Packing & General Mfg. Co., gaskets, rope, etc.	181 76	
Canadian Allis-Chalmers Ltd., springs	19 77	
Canadian Charts & Supplies, charts	26 88	
Canadian Fairbanks-Morse Co., scale repairs	59 92	
Canadian Gasket Co., gaskets, etc.	29 15	
Canadian General Electric Co., couplings	195 00	
Cryer & Trap & Valves Co., balls	22 55	
Darling Bros., brass assembly and filter cloths	34 83	
Dearborn Chemical Co., treatments	475 95	
Diamond Specialty Ltd., elements, tubes and bearings	132 64	
Dominion Carbon Brush Co., brushes	10 73	
Dominion Wheel Foundries Ltd., grates, etc.	376 94	
Elliott & Co., cutters, etc.	53 50	
Foster & Wheeler, bricks, grates, etc.	365 41	
Garlock Packing Co., coils and spools	72 08	
Gutta Percha & Rubber Co., washers and hose	35 09	
Hamilton Gear & Machine Co., spur	16 20	
McColl-Frontenac Oil Ltd., oil	426 83	
McGregor-McIntyre Iron Works, coal chute	104 00	
Robinson Clay Products, bricks	46 92	
Smart, Turner Machine Co., repairs and parts	319 90	
G. F. Sterne & Sons, cement	103 72	
United Steel Corporation, machine work and bearings	98 90	
Warren Steam & Pump Co., pump and parts	125 83	
Accounts under $10 (4)	24 97	
Advertising for coal tenders	47 50	
University Press, printing and stationery	18 29	
Superintendent's Dept., freight, $92.29; labour, $6,481.10; material, $1.758.99	8.332 38	
Engineers, assistant engineers, firemen and trimmers ($20.139.43):		
Chief Engineer, C. S. Moseley, 12 mos.	2.900 00	
Assistant engineers, each 12 mos.:		
L. McMaster	1.800 00	
W. Smith	1.800 00	
A. McHugh	1.680 00	
S. Simpson	1.560 00	
Firemen @ $110 to $117.50 per month:		
Sundry persons	6.220 85	
Trimmers, boiler cleaners and pump attendants @ $90 to $117.50 per month:		
Sundry persons	4.178 58	
	$144.684 87	
Less sale of cinders, etc.	302 80	
		$144.382 07

XXI. MISCELLANEOUS AND GENERAL

129. Central Stores

Storekeeper, C. A. Johnston, 12 mos.	$1.900 00	
Assistant Storekeeper, S. Tipping, 12 mos.	1.150 00	
Clerk, Miss J. Taylor, 12 mos.	1.050 00	
Heat and light	387 02	
	$4.487 02	
Less heat and light charged to Central Power Plant	387 02	
		$4.100 00

130. GROUNDS

Foreman Gardener, R. R. Corbett, 12 mos.		$1.800 00	
Lighting account		300 42	
Labour, gravel, roadways, granolithic walks, flowers, shrubs, and general expenses ($17,236.37):			
Aikenhead Hardware Ltd., hardware		53 08	
P. Burns & Co., coal		15 15	
Canadian Industries Ltd., fertilizer		219 02	
Cedarvale Tree Experts, treating tree		10 00	
City Treasurer, repairs to water main, basin, frames, etc.		147 12	
Connaught Laboratories, feed		12 31	
Grant Contracting Co., sidewalks		1,201 99	
Gutta Percha & Rubber Co., tires		99 32	
Joe Hampson, sand		40 50	
F. Hogg Nursery Co., bulbs and shrubs		84 25	
Johnston Haulage Co., cartage		67 50	
B. W. Miller & Son, plants		258 26	
P. Mulholland & Co., hay		37 45	
N. L. Piper Railway Supplies, sprinklers		32 00	
Provincial Treasurer, truck license		48 50	
Hugh Reid, horse-shoeing		44 15	
Rennie's Seeds, spike disc with power mower attachment		55 00	
Riseborough & Jackson, feed		80 38	
Salem's Garage, truck repairs		30 30	
W. G. Stephenson, surfacing roadway, etc.		1.700 64	
S. A. Stinson & Son		15 57	
Toronto Salt Works, rock salt		33 48	
W. P. Warner, fertilizer and sod		493 25	
York Nurseries, bulbs and plants		21 30	
Accounts under $10 (8)		46 84	
Superintendent's Dept., labour, $11.040.26; material, $1.348.75		12.389 01	
Alterations in Men's Residence quadrangle ($1,000):			
Chestnut & McGregor, building walls		593 00	
W. P. Warner, sod		115 00	
Superintendent's Dept., labour		292 00	
		$20.336 79	
Less light charged to Central Power Plant	$300 42		
Credit for cartage	150 92		
		451 34	
			$19.885 45

131. PROTECTIVE SERVICE

Pay of Constables and Nightwatchmen ($16,043.13):		
Constables, each 12 mos.:		
R. D'Arcy	$1,950 00	
W. J. Scott	1.550 00	
H. V. Spence	1,500 00	
C. Scruby	1.260 00	
Nightwatchmen:		
W. A. Evans, 12 mos.	1,260 00	
W. Hunter, 12 mos.	1,260 00	
W. Lotto, 12 mos.	1,260 00	
J. C. Smith, 12 mos.	1.260 00	
A. Smith, 11 mos., 4 days	1.226 49	
J. Kirkwood, 10½ mos.	1,155 00	
W. Gordon, 9 mos., 20 days	1.014 64	
A. R. Endersby, 343 nights	1.029 00	
W. Davis, 46 nights	138 00	
F. Heyd, 23 nights	69 00	
A. Worthy, 36 nights	108 00	
N. Sutherland, 1 night	3 00	
Uniforms, clocks, dials, etc. ($236.73):		
Harding Bros., clock repairs	149 30	
Tip Top Tailors, uniforms and overcoat	56 15	
Accounts under $10 (2)	1 09	
Superinitendent's Dept., labour, $9.38; material, $20.81	30 19	
		$16.279 86

132. Telephones

Bell Telephone Co., service to 30 June		$12.474 57	
Less receipts from sub-services	$3.387 37		
residences	760 00		
slot machine	37 49		
		4.184 86	
		$8.289 71	
Switchboard operators ($4,162.54):			
Mrs. J. Hoddinott, 11 mos., 12 days		988 00	
Miss E. M. Crawford, 12 mos.		936 00	
Miss M. Maher, 12 mos.		907 19	
Relief:			
Miss J. Brown		788 10	
Miss M. Burgess		199 50	
Miss H. Gardiner		196 30	
Mrs. I. Morrison		80 65	
Miss L. Reed		54 80	
Miss F. Findlay		7 50	
Miss B. Grozelle		4 50	
			$12.452 25

133. Insurance

Fire:			
Balance of premiums on general Schedule as renewed for three years from 1 January, 1937, brought forward from 1936-37	$32.775 84		
Carried forward to 1938-39	16.387 92		
Charged to Revenue, 1937-38		$16.387 92	
Additional premiums on Schedule as revised at 10 March, 1938, to end of period	$10.073 28		
Of which one-half charged to Revenue, 1937-38 (balance carried forward)		5.036 64	
Casual premiums:			
Connaught Laboratories:			
Commercial Union Assurance Co.		500 00	
Economics Building:			
Employers' Liability Assurance Corporation		141 83	
Patriotic Assurance Co.		121 68	
Norwich Union Fire Insurance Society		121 68	
Stadium Grandstand and Bleachers:			
North British & Mercantile Insurance Co.		825 00	
Dunlap Observatory:			
North British & Mercantile Insurance Co.		20 22	
Railway Passengers' Assurance Co.		20 22	
Gull Lake property:			
Home Insurance Co.		153 35	
AEtna Insurance Co.		153 35	
Botanical Field Laboratory:			
Home Insurance Co.		25 00	
Biological specimens loaned by Royal College of Surgeons:			
Western Assurance Co.		62 50	
Accounts under $25 (9)		83 46	
Automobiles:			
Dominion of Canada General Insurance Co., University-owned cars, $200.30; non-ownership coverage, $160		360 30	
Hydro-Electric Power Commission:			
Permit and inspection fee		50 00	
Canadian Bank of Commerce:			
One year's charge for guarantee re safe-keeping of securities		150 00	
		$24.213 15	
Less rebates on cancelled policies		15 17	
			$24.197 93

134. Law Costs

Hamilton Cassels, K.C., taxed costs as Solicitor to the University	$937 99

134a. Taxes

City Treasurer, taxes on No. 188 Yonge Street	$5,068 43

135. Auditor's Fees

Clarkson, Gordon, Dilworth and Nash, annual remuneration	$3,000 00

136. Travelling Expenses

President and Academic Staff ($2,568.28):		
President H. J. Cody	$123 85	
Miss A. A. Alvey	22 55	
F. H. Anderson	75 00	
R. W. Angus	50 50	
S. Beatty	40 00	
G. S. Brett	58 45	
E. K. Brown	25 25	
E. F. Burton	30 63	
C. A. Corrigan	50 00	
H. S. M. Coxeter	40 00	
E. H. Craigie	40 00	
G. L. Duff	40 00	
T. W. Dwight	50 00	
R. C. Ellis	100 00	
B. Fairley	32 00	
Miss Marion B. Ferguson	40 00	
K. C. Fisher	20 00	
Duncan Graham	27 05	
W. J. K. Harkness	20 00	
C. W. M. Hart	40 00	
H. S. Jackson	40 00	
F. C. A. Jeanneret	45 00	
F. B. Kenrick	33 85	
D. G. McCullagh	140 00	
W. S. McCullough	29 00	
N. A. M. MacKenzie	40 00	
C. Marchant	22 50	
A. D. A. Mason	50 00	
T. J. Meek	70 00	
V. B. Meen	26 67	
C. H. Mitchell	40 00	
E. S. Moore	59 90	
P. Nash	40 00	
M. A. Peacock	26 67	
L. S. Russell	40 00	
E. S. Ryerson	290 00	
J. Satterly	75 00	
Griffith Taylor	200 00	
J. Ellis Thomson	26 67	
R. B. Thomson	40 00	
M. W. Wallace	57 74	
F. V. Winnett	250 00	
Out-of-Town Members of the Senate ($669.30):		
Judge J. S. Campbell	95 50	
Judge D. J. Cowan	39 40	
W. J. Deadman	13 35	
H. C. Griffiths	20 00	
J. H. Hardy	15 20	
Dr. C. D. McGilvray	31 00	
Dr. T. M. Mulligan	167 20	
J. P. S. Nethercott	33 00	
Colonel W. N. Ponton	30 00	
Dr. J. B. Reynolds	49 65	
H. S. Robertson	49 25	
W. J. Salter	27 50	
H. J. Sims	15 45	
L. F. Stephens	17 40	
A. R. Walker	38 00	
Sundry persons (5)	27 40	
		$3.237 58

137. RECEPTIONS TO SOCIETIES AND UNIVERSITY VISITORS

Expenses re sundry public lectures ($412.56):		
American Physical Society	$50 00	
E. J. Dent	75 00	
Institute of International Education	100 39	
Dr. W. I. Jennings	50 00	
Prof. Alfred C. Lane	44 00	
Dr. Hans Simons	50 00	
Dr. H. J. Weigand	43 17	
Catering on sundry occasions ($721.55):		
Coles Ltd., Cordell Hull convocation	26 00	
Hart House, President's teas and luncheons, $261; sundry guests, $38	299 00	
Royal Ontario Museum, teas: Federation of University Women, $43.75; American Association of Teachers of Physics and Physical Society, $60	103 75	
York Club, luncheons; Cordell Hull, $174.05; Sir Howard d'Egville, $58.45	232 50	
University College Women's Union: President's dinner for Students' Administrative Council	41 25	
Accounts under $10 (4)	19 05	
		$1,134 1

138. CONVOCATION EXPENSES

Hoods, gowns, printing programmes, invitations, etc.:		
Harcourt's Ltd., hood	$22 50	
S. Harrod, engrossing	17 05	
G. B. Pritchard, engrossing	3 10	
Walter & Son, hoods and gowns	260 50	
University Press, printing and stationery	236 85	
		$540 00

139. AID TO PUBLICATIONS AND SOCIETIES

Alumni Federation	$2,500 00	
Royal Astronomical Society	150 00	
Royal Society of Canada	400 00	
Universities Bureau of the British Empire	299 76	
British School of Archaeology, Jerusalem	100 00	
American School at Athens	200 00	
American School of Oriental Research, Jerusalem	100 00	
American School of Oriental Research, Bagdad	100 00	
Association of American Universities	50 00	
Society for Promotion of Engineering Education	15 16	
Students' Administrative Council (re student lodgings)	100 00	
		$4,014 92

140. SENATE ELECTIONS

(nothing spent)

141. BURSARIES

Awards to sundry students:		
Faculty of Arts	$7,270 00	
Faculty of Medicine	3,175 00	
Faculty of Dentistry	100 00	
	$10,545 00	
Less portion charged to donation:		
Medical Society	600 00	
		$9,945 00

142. CONTINGENCIES

Canadian Bank of Commerce, charge re registration of securities	$82 90
Chartered Trust & Executor Co., commission on collection of postponed fees of students	10 69
Geo. Coles Ltd., catering re Ontario Education Association Convention	157 50
Hart House, catering re Social Science Convention	37 50
Dunlop's Ltd., flowers for funerals	46 00
Wm. Janes, damages to car caused by fire hose	10 50
Klotz Library Fund, purchase of library of the late Professor Klotz	1,500 00

Manufacturer's Life Insurance Co., interest on mortgage, No. 104 St. George St.		27 80	
Provincial Treasurer, portion of cost of printing University Report		129 43	
Remembrance Day Committee, wreath for Tower Memorial Service		12 50	
Charles H. Riches & Sons, Canadian and United States Patents:			
Respirator, Dr. Hall and B. S. Leibel	$219 00		
Bellows Oscillating Means	363 00		
		$582 00	
Accounts under $10 (3)		17 70	
Workmen's Compensation:			
Workmen's Compensation Board, to cover allowances paid to employees, etc.		336 62	
Medical services for injured employees, etc.:			
Toronto General Hospital		53 00	
Dr. Roy H. Thomas		52 50	
Sundry doctors (6)		35 50	
			$3.092 14
			$107.885 71

XXII. 143. CAPITAL ACCOUNT CHARGES

Accountant, Supreme Court of Ontario, twenty-ninth annual payment on debenture issue of 1909	$25.260 00		
Less portion charged to Ontario College of Education.	10.000 00		
		$15,260 00	
Accountant, Supreme Court of Ontario, twenty-third annual payment on debenture issue of 1915 re Hart House		5,975 00	
Accountant, Supreme Court of Ontario, fourteenth annual payment on debenture issue of 1924 re Forestry Building		10,000 00	
Toronto General Hospital, twenty-seventh annual payment on debenture issue of 1911 re grant to Toronto General Hospital		15,157 00	
Toronto General Hospital, twenty-seventh annual payment on debenture issue of 1911 re old Pathological Building		6,568 00	
University of Toronto (Rockefeller Endowment — Medicine) ninth annual payment on debenture issue of 1929 re Banting Institute		64,193 00	
Royal College of Dental Surgeons, interest on liability of $50.000		2.500 00	
			$119.653 00

XXIII. SPECIAL RESEARCH

144. Departmental Appropriations

(a) Arts:	
Biology:	
Research Assistants:	
A. Wilkes, 8 mos	$650 00
L. Butler, 11 mos	600 00
C. J. Kerswill, 8 mos	400 00
K. H. Doan, 8 mos. (paid also $200 in Fisheries Research)	300 00
Miss A. M. Ironside (paid also $160 in department)	300 00
H. H. I. Nesbitt, 8 mos	300 00
H. B. Wressell, 8 mos	300 00
Assistant in Vivarium, W. Whitehead, 1 July to 31 August	72 00
Expenses ($535.21):	
Agfa Ansco Ltd., acetal	10 38
S. Bane, scale	10 00
Central Scientific Co., chemicals and glassware	32 16
Crabtree-Gravure, reprints	38 88
Human Biology, reprints	16 17
Dr. W. E. Hurlburt, labour and material for sparrow aviary	21 55
Kelley Feed & Seed Co., feed	30 70
Lake Simcoe Ice & Fuel Co., ice	10 00
R. Laidlaw Lumber Co., sawdust	18 00
H. E. LeMasurier, prints	11 20
Maple Leaf Milling Co., feed	61 06
Photographic Service, prints	15 00
Arthur H. Thomas Co., dishes, powder, etc.	28 11
University Press, printing and stationery	24 41
Accounts under $10 (17)	76 52

Sundry disbursements by department:			
Food supplies, $30.93; hardware, etc., $12.29; drugs, $8.16; sundries, $23.57		74 95	
Superintendent's Dept., labour, $40.22; material, $15.90		56 12	
		$3,457 21	
Less credits: Sale of material, $76.78; material returned, 93c		77 71	
Fisheries Research:		$3,379 50	
Research Assistants:			
F. E. J. Fry, 12 mos. (paid also $900 in department)		$1,100 00	
R. R. Langford, 12 mos. (paid also $900 in department)		1,100 00	
W. A. Kennedy, 3 mos.		300 00	
K. H. Doan, 3 mos. (see also above)		200 00	
W. R. Martin, 3 mos. (paid also $30 in department)		200 00	
V. E. F. Solman, 3 mos. (paid also $30 in department)		200 00	
Expenses ($1,197.08):			
W. J. K. Harkness, disbursements:			
Provisions, $368.27; travelling and hotel expenses, $146.56; car and boat service, $121.30; gas and oil, $217.99; hardware and lumber, $203.54; sundries, $42.58		1,100 24	
Borden Co., milk powder		30 87	
Postage		26 26	
University Press, printing and stationery		19 80	
Accounts under $10 (4)		12 69	
Superintendent's Dept., material		7 22	
			$7,676 58
Botany:			
Research Associate, L. C. Coleman, 12 mos.		$2,000 00	
Research Assistants:			
B. B. Hillary, 3 mos.		210 00	
D. F. Putnam, 3 mos.	paid also in department	175 00	
D. C. McPherson, 3 mos.		150 00	
S. A. Simmons, 3 mos.		150 00	
A. J. Skolko, 3 mos.		150 00	
Miss G. S. Taylor, 3 mos.		150 00	
C. N. Haldenby, 3 mos.		150 00	
A. J. V. Lehmann, 3 mos.		140 00	
W. R. Watson, 2 mos.		120 00	
D. H. Hamly, 2 mos. (paid also in Departments of Applied Physics and Botany, and Special Research, Applied Physics)		90 00	
N. W. Radforth, 2 mos. (paid also $150 for Extension Work)		90 00	
Miss D. F. Forward, 2 mos.	paid also in department	80 00	
Miss A. B. Brodie, 1 month		60 00	
M. W. Bannan, 1 month		60 00	
Expenses ($209.87):			
Canadian Liquid Air Co., rental of cylinders and gas		18 76	
R. H. Chappell, glass-blowing		11 00	
Prof. H. S. Jackson, expenses re trip to Cambridge for research work on Fungi		65 12	
Lancaster Press, reprints		47 04	
National Research Council of Canada, reprints		16 15	
Accounts under $10 (4)		17 93	
Superintendent's Dept., material		33 87	
			$3,984 87
(b) Medicine:			
Organic Chemistry:			
Erich Baer, Assistant Professor, Research in Organic Chemistry, 12 mos.		$3,000 00	
			$3,000 00
Bio-Chemistry:			
Research Assistants:			
G. C. Butler, 2 mos.	paid also in department	$200 00	
W. H. Fishman, 2 mos.		200 00	
Paul Hamilton, 2 mos.		200 00	
		600 00	

Experimental Medical Research:		
Chief Technical Assistant, W. Cowan, 12 mos.		$1,700 00
Head of Animal Quarters, J. Minshull, 12 mos.		600 00
Assistants in Animal Quarters:		
C. Lee, 12 mos.		660 00
L. Hughes, 12 mos.		595 32
Expenses ($2,795.64):		
Allen Mfg. Co., laundry		120 27
Corbett-Cowley Ltd., uniforms		49 19
E. Cullen, animals		707 60
Francis, Hankin & Co., incinerator bars		11 00
Ingram & Bell, chemicals, needles, drugs, etc.		543 32
Kelley Feed & Seed Co., straw and feed		80 51
Langley, Harris Co., dog biscuits		50 00
John McGillian, carrots		61 20
Mallinckrodt Chemical Works, ether		68 82
Maple Leaf Milling Co., feed		328 50
Ralston, Purina Co., feed		473 23
West Disinfecting Co., disinfectant		25 06
Accounts under $10 (5)		15 38
Superintendent's Dept., labour, $87.70; material, $173.86		261 56
		$6,950 96
Less credits: Anonymous donation	$125 00	
Sale of animals and feed	967 95	
		1,092 95
		$5,858 01
Charged to Dunlap Bequest	$3,975 00	
Charged to Reeve Bequest	1,883 01	
		5,858 01
(c) Applied Science:		
Applied Physics:		
Research Assistants:		
L. E. Jones, 3 mos. (paid also $1,300 in department)		$525 00
D. H. Hamly, 1 month (see also department)		175 00
Machinist, C. T. Harding, 4 weeks (see also Department of Civil Engineering: Surveying and Geodesy)		120 00
Expenses ($79.88):		
W. E. Booth, film		3 12
Superintendent's Dept., labour, $36.60; material, $40.16		76 76
Architecture:		
Expenses:		
Clerical Assistant, J. F. Brennan		25 00
Draughting assistance:		
S. B. Barclay		15 00
F. P. Meschino		15 00
Cripps Studio, prints		6 00
Photographic Service, prints		26 97
A. S. Whyte, photographs		10 00
Chemical Engineering:		
Research Assistants:		
W. H. Rapson, 3 mos. (paid also $1,150 in department)		450 00
G. T. Eaton, 3 mos.		412 50
L. J. Rubin, 3 mos.		375 00
G. P. Beal, 2 mos. }		325 00
N. R. Fasken, 2 mos. } Paid also		250 00
B. Marks, 2 mos. } in dept.		250 00
W. C. Macdonald, 3 mos. }		220 00
A. S. Weatherburn, 1 month		75 00
Expenses:		
Canadian Laboratory Supplies, acids		6 37
Civil Engineering:		
Research Assistants:		
C. E. Helwig, 2 mos. (paid also $1,250 in department		300 00
R. D. Hiscocks, 2 mos., 2½ weeks		195 00
Expenses:		
Photographic Service, prints		39 00

Electrical Engineering:		
Expenses:		
Art Metropole, achromatic objector, etc.	72 77	
Baker & Co., spool, etc.	8 22	
British Drug Houses, chemicals	12 50	
Walter A. Carveth Co., microscopes, etc.	228 50	
J. W. Fecker, lens	15 30	
Robbins & Townsend, motor	30 00	
Spencer Lens Co., magnifier	14 32	
Mechanical Engineering:		
Research Assistants:		
F. G. Ewens, 2 mos.	350 00	
G. Gung, 5 mos.	350 00	
R. J. Birss, 2 mos. (paid also $1,100 in department)	330 00	
Expenses ($116.43):		
American Society for Mechanical Engineers, publications	4 75	
Keuffel & Esser, tracing cloth	23 35	
McGregor-McIntyre Iron Works, infiltration apparatus	42 00	
W. R. McKee, potentiometer repairs	12 75	
University Press, printing and stationery	10 70	
Superintendent's Dept., labour, $18.52; material, $4.36	22 88	
Printing Bulletins, etc.:		
Wm. Clowes & Sons, reprints	29 07	
Grand & Toy, book	8 70	
National Research Club of Canada, reprints	13 75	
Postage	10 00	
University Press, printing and stationery	428 98	
	$5.914 26	
Charged to Wallberg Bequest	5.864 26	
		$50 00
(d) Dentistry:		
Professor of Periodontology, H. K. Box, 12 mos. (half time)	$3.000 00	
Laboratory Technician, A. F. Fenton	1.500 00	
		$4.500 00
		$19,211 45

145. Banting and Best Research

(a) Banting Research:	
Professor of Research in Medicine, Sir Frederick Banting, 12 mos.	$5,000 00
Associate Professors, each 12 mos.:	
W. R. Franks	3.600 00
D. A. Irwin	3.600 00
G. E. Hall	3.500 00
C. C. Lucas, Assistant Professor, 12 mos.	3,200 00
Research Associates, each 12 mos.:	
Miss S. Gairns	2.160 00
J. M. Grosheintz	2,040 00
Research Assistants:	
J. E. Goodwin, 12 mos.	1.800 00
H. L. Collins, 12 mos.	1,680 00
Miss J. M. Lang, 12 mos.	1.400 00
D. P. C. Lloyd, 12 mos.	1.380 00
Dr. E. Marie Hearne, 12 mos.	1.200 00
Miss M. M. Shaw, 12 mos.	1,200 00
Dr. Sheila M. Gordon, 10 mos.	1.000 00
R. C. Sniffen, 10 mos.	1.000 00
Miss H. E. Williams, 12 mos.	900 00
Bernard Leibel, 12 mos.	900 00
Miss H. E. Ball, 11 mos.	825 00
J. M. R. Beveridge, 10 mos.	750 00
M. O'Sullivan, 10 mos.	750 00
Miss M. Wheatley, 10 mos.	750 00
Miss D. B. Mundell, 15 September to 30 June	712 50
D. W. Lougheed, 9 mos.	675 00
G. W. Manning, 4½ mos.	450 00
F. L. Lawson, 4½ mos.	360 00
F. B. Thomson, 4 mos.	300 00
A. E. Byrnes, 4 mos. (resigned 31 December)	300 00
G. A. Meek, 4 mos.	300 00

H. Miller, 18 weeks	288 00
F. H. Lawford. 3 mos. (paid also $550 in Department of Pathological Chemistry)	270 00
M. L. Allan. 3 mos	180 00
W. K. Kerr, 1½ mos	112 50
R. C. Smith, 1 month	75 00
Miss S. Brydon, 1 month	75 00
G. J. Millar, 1 month	50 00
Research Fellows:	
H. J. Creech, 12 mos	1,200 00
L. B. Macpherson. 10 mos	800 00
Lorne D. Proctor, 3 mos	300 00
J. J. Rae, 2 mos	200 00
W. M. Gray, 1 month (paid also $500 in Department of Physics)	75 00
Chemical Assistants:	
Raymond MacDougall, 15 November to 30 June	448 83
H. N. MacFarland, 1 month, 14 weeks	235 00
D. Barton, 12 weeks	150 00
Technicians:	
L. C. Brock, 12 mos	1,380 00
H. M. Douglas, 12 mos	1,200 00
J. Conboy, 12 mos	1,140 00
T. Walker, 12 mos	1,140 00
C. Lott, 11 mos	825 00
G. Parkes. 12 mos	780 00
D. Snow. 12 mos	720 00
Miss N. H. Davy. 12 mos	660 00
W. J. Watson, 12 mos	593 33
Miss G. Mulholland. 2 mos	130 00
Technical Assistant, G. Johnston, 6 2/3 weeks	93 33
Secretarial Assistants:	
Miss M. J. Millar, 12 mos	1.080 00
Miss D. Waugh, 1 week (paid also $70 from Medical Research — Best Fund)	25 00
Assistants in Animal Quarters:	
K. Sims, 7½ mos	375 16
F. Simpson, 4½ mos	247 50
S. Smith, 12 mos	660 00
A. Stello, 12 mos	605 00
Laboratory Attendant, Mrs. C. McCallum, 484 hours (paid also $350 in Pathological Chemistry)	155 52
Cleaner, Mrs. Allison Moffatt, 12 mos	640 00
	$58,641 67
Expenses ($18,812.69):	
Abbott Laboratories, powder	35 73
Aikenhead Hardware Ltd.. hardware	18 21
Allen Mfg. Co., laundry	330 36
Aluminum Co., sheet aluminum	17 28
American Journal of Cancer, subscription	31 48
Bausch & Lomb Optical Co., condenser	11 27
B. A. Bayley, stimulator	35 00
Borden & Co., milk powder	10 31
British Aluminum Co., aluminum	52 04
British Drug Houses, acids	39 23
Fred Broom, meat	183 96
Burger's Battery Co., batteries	61 71
Prof. E. F. Burton, analyses of aerial dusts	35 00
Cambridge Instrument Co., lamp	13 11
Cambridge University Press, reprints	27 42
Canadian General Electric Co., radiotrons	23 63
Canadian Industries Ltd., acids	19 77
Canadian Kodak Co., chemicals	140 55
Canadian Medical Association, reprints	77 33
Canadian Westinghouse Co., radio parts	145 43
Carswell Co., books	32 36
Central Scientific Co., chemicals, glassware, etc	1,840 02
R. H. Chappell, glass-blowing	54 50
Connaught Laboratories, animals	15 00
Corbett-Cowley Ltd., uniforms	100 96

A. C. Cossor, tubes	68 36
Coulter Copper & Brass Co., still repairs	26 00
E. Cullen, animals	1,478 26
Culling Ltd., paper	29 50
Eastman Photographic Stores, slides and prints	77 67
T. Eaton Co., pans, sealers and trays	12 76
Fisher Scientific Co., chemical apparatus	71 12
A. Gallenkamp Co., spatules	33 44
General Motors Sales Corporation, refrigerator repairs	62 22
Gevaert Co., lantern plates	60 49
Albert M. Grass, oscillograph	450 91
B. L. Guyatt, animals	27 90
Hammond Mfg. Co., transformer chokes	51 70
Francis Henker Co., incinerator repairs	76 50
J. F. Hartz Co., slides	75 00
Hoffman-La Roche Ltd., chemicals	93 37
E. Hooking Glass Works, glassware	32 63
A. S. Hunt, glass-blowing	13 75
Ingram & Bell, chemicals, tubing, needles, etc	631 70
Instruments Ltd., thermometer	15 50
International Resistance Co., resistors, etc	172 75
Roscoe B. Jackson Memorial Laboratories, animals	437 61
Jackson, Howe, Brooks Co., tubing	12 00
Janetto Mfg. Co., wave filter	108 90
Frank Jennings, sawdust	48 00
Journal of Biological Chemistry	16 12
L. Light & Co., chemicals	21 68
Lockhart's Camera Exchange, prints and plates	45 81
Lowe- Martin Co., transfer cases	19 20
John McGillian, carrots	40 80
W. R. McKee, galvanometer, etc	67 10
Mallinckrodt Chemical Co., ether	23 27
Mead, Johnson Co., yeast powder	12 75
C. V. Mosby Co., reprints	20 00
National Grocers Co., salmon	13 60
Naylor & Naylor, insulators and respirators	105 00
Northern Electric Co., condensers, etc	116 21
Office Specialty Mfg. Co., folders and cards	13 63
Ontario College of Agriculture, eggs and poultry	442 35
Ontario Rubber Co., tubing	11 66
Physics Dept., X-Ray examination of mine dust	10 00
Philco Products Ltd., wire kit	19 95
Postage	55 16
Radio Equipment Ltd., radio parts	88 45
Ralston Purina Co., feed	731 49
Risebrough & Jackson, feed	616 18
Robbins & Townsend, typewriter inspection	28 00
Rogers Radio Tubes Ltd., radio parts	25 00
Schering Ltd., glycerine aldehyde	105 42
Arthur H. Thomas Co., glassware, etc	79 23
E. Tozer, crushing ore	26 50
W. T. Turrall, services in connection with adapting infra-sizer	65 00
Walden & Jennings, sawdust	44 00
Waverley Press, reprints	12 99
Weston Electrical Instrument Corporation, selectors, etc	41 19
S. S. White Co., oxygen, etc	94 84
Wholesale Radio Co., radio parts	150 72
Will Corporation, microtome knife	27 31
Harold A. Wilson Co., stop watch	16 00
Wilson Scientific Co., glassware	73 90
G. T. Woodward, thermo units	96 00
University Press, printing and stationery	141 30
Honoraria for work in connection with Infantile Paralysis:	
Leonard Brock	100 00
John Conley	100 00
G. E. Hall	100 00
Bernard Leibel	100 00
F. M. Shepherd, mechanic's overtime services	25 00
Accounts under $10 (30)	160 82

Travelling expenses:		
Sir Frederick Banting		175 30
H. J. Creech		48 75
W. R. Franks		189 82
J. E. Goodwin		99 76
G. E. Hall		64 90
H. E. T. Haultain		51 00
D. A. Irwin		124 30
P. C. Lloyd		552 35
C. C. Lucas		53 90
Sundry disbursements by department:		
Hardware, $34.39; drugs and stationery, $44.68; postage, telegrams. etc., $13.63; food supplies. $29.33; sundries. $27.97		150 00
Superintendent's Dept., telephone, $20.40; freight. $154.40; labour. $1,927.02; material, $2,760.10		4.861 92
Contribution to Pension Funds		816 96
Alterations to Banting Institute ($7,601.88):		
Building:		
Superintendent's Dept., labour, $2.313.30; material. $1.423.70		3.737 00
Grand & Toy, lockers, etc		141 90
Equipment:		
Allen Mfg. Co., laundry		24 11
Baker Platinum Co.. chlorides		54 00
British Drug Houses. chemicals		381 50
Canadian Industries Ltd.. acid		28 03
Canadian Laboratory Supplies, oven. glassware. filter paper. etc.		570 00
Central Scientific Co., chemicals. glassware. etc		1.257 56
E. Hookway Glass Works, glassware		167 05
Ingram & Bell, ether, etc		39 65
W. H. F. Kuhlmann. balance		178 21
C. H. Taylor, autoclave repairs		213 50
S. S. White Co.. gas		107 07
Wilson Scientific Co.. glassware. chemicals. etc		566 20
University Press. printing and stationery		17 07
Accounts under $10 (6)		29 66
Superintendent's Dept., freight, $20.67; labour, 32c: material. $68.38		89 37
		$85.056 24
Credited from Banting Research Foundation	$15.000 00	
Ontario Mining Association	10.000 00	
McIntyre-Porcupine Mines	7.886 22	
Medical Research — Best Fund	5.000 00	
Eli Lilly Research Fellowship	1,912 50	
Silicosis Committee	50 00	
Refund by J. Campbell (properly Best Fund. corrected in 1938-39)	23 89	
Charged to Insulin Committee Grants	37.683 63	
		77.556 24
		$7.500 00
(b) Best Research:		
Research Associate. C. H. Best. 12 mos. (see also Department of Physiology)		2.500 00
Physiology:		
Research Associate. J. Markowitz (sessional)		100 00
Research Assistants (Sessional):		
R. E. Haist, 1 month (paid also $1,466.67 in department)		100 00
M. J. Wilson. 4 mos. (part time — paid also $400 in Department of Anatomy)		400 00
Mrs. Jean P. Fletcher. 12 mos		900 00
Demonstrators (Sessional — part time):		
C. E. Walker, 6 mos		500 00
F. P. Dewar (paid also $250 in Anatomy)		250 00
M. W. Hicks, 4 mos. (paid also $200 in Anatomy)		200 00
Fellow. B. H. B. Hallam, 3 mos. (part time)		240 00

Technical Assistants:	
F. L. Robinson, Head of Technical Staff, 12 mos. (share of salary charged to Research — see also department)	500 00
Miss G. I. Harpell, 12 mos	1,000 00
G. Scattergood, 12 mos	1,000 00
L. V. Hodgins, 10 mos., 3 weeks	831 25
Charles Scattergood, 12 mos	720 00
Mrs. J. M. D. Williamson, 12 mos	720 00
Miss M. L. Palmer, 2 mos	200 00
S. McCracken, 7 weeks	138 00
Secretarial Assistants:	
Miss Doris Secord, 3 mos. (paid also $1.250 in department)	100 00
Miss Dorothy Waugh, 3 weeks (see also Medical Research —Banting)	70 00
Physiological Hygiene:	
Research Associates, each 12 mos.:	
Miss J. H. Ridout	2.200 00
Mrs. Ruth C. Partridge (see also School of Hygiene)	1.100 00
Research Assistants, each 12 mos.:	
Miss E. F. Dudley Martin	1,250 00
J. Campbell, Jr	1.600 00
Technical Assistants:	
C. R. Cowan, Senior (share of salary charged to Research — see also School of Hygiene)	500 00
J. Scattergood, 12 mos	1.000 00
Miss M. Luxton, 12 mos	850 00
Miss M. E. Hocking, 12 mos	800 00
J. G. Truax, 12 mos	800 00
Miss A. Jaffray, 12 mos	750 00
Miss L. C. Barber, 1 month	70 83
Kenneth Roseblade, ½ month (see also School of Hygiene)	30 41
Technician, C. L. Skelding, 1 month (see also School of Hygiene)	20 00
	$21.440 49

Expenses ($15.912.78):

Aikenhead Hardware Ltd., hardware	93 96
American Medical Association, reprints	12 87
Art Metropole, lamps, etc	57 81
Ayerst, McKenna & Harrison, cod liver oil	26 08
Booth Canadian Films Ltd., developing	10 64
Borden Co., casein, etc	138 46
British Drug Houses, drugs and chemicals	125 31
F. J. Burns Co., frogs	62 34
Cambridge University Press, reprints	15 19
Canada Packers, meat	181 88
Canadian Kodak Co., chemicals	386 81
Canadian National Carbon Co., batteries	24 99
Canadian Office & School Furniture Ltd., table and cupboards	328 00
Canadian Tire Corporation, tubes, resistors, sockets, etc	25 85
Walter A. Carveth & Co., microscope repairs	61 50
Central Scientific Co., chemicals, glassware, thermometers, etc	400 22
R. H. Chappell, glass-blowing	175 75
Chicago Wheel & Mfg. Co., grinder	24 04
Warren E. Collins Inc., soda lime	40 28
Connaught Laboratories, reprints, alcohol, heparin solution and maintenance of animals	1.261 83
Joseph Cooper, meat	729 21
Corbett-Cowley Ltd., uniforms	28 51
E. Cullen, animals	1.081 90
C. Emmett, animals	16 80
F. W. Fisher, filing boxes	48 60
J. A. Fontaine, frogs	35 00
General Radio Co., condensers and potentiometer	133 00
General Steel Wares, instrument cabinet	32 93
Ingram & Bell, chemicals, sutures, needles, etc	77 97
Johnson-Matthey Co., gold chloride	23 00
Stephen Jones, films	62 50
Kennedy Mfg. Co., sprayer	31 68

Langley, Harris & Co., dog biscuits	100 00	
Mallinckrodt Chemical Works, ether	21 78	
Matthews, McCutcheon & Co., pans, films, etc	62 20	
Merck & Co., chemicals	201 28	
James Morrison Brass Mfg. Co., floats	17 20	
New Standard Foundry Co., castings	13 93	
Office Specialty Mfg. Co., cabinets and guides	100 20	
Pfanstiehl Chemical Co., chemicals	24 63	
Photographic Service, slides and prints	79 55	
Queen City Brass Foundry, castings	20 79	
Rainbow Lantern Slide Co., slides	32 45	
Frank Read, iron blocks	10 00	
Robbins & Townsend, typewriter inspection	10 20	
Rolls & Darlington, chemicals	16 65	
Spahr, Glenn Co., reprints	20 43	
Superior Instruments Co., generator, etc	44 96	
Tordoff Electric Co., motor	10 00	
H. F. Whittaker, animals and slides	26 00	
Wholesale Radio Service, radio parts	955 95	
Dr. Madelyn Womack, preparing methionine	16 85	
University Press, printing and stationery	287 58	
Accounts under $10 (24)	124 18	
Travelling expenses:		
C. H. Best	515 84	
H. M. Barrett	75 00	
J. Campbell ($23.89 returned, credited to Banting Fund, corrected in 1938-39)	50 00	
E. Fidlar	50 15	
D. Y. Solandt	414 90	
R. Schoenheimer	40 55	
N. B. Taylor	75 00	
D. M. Wrench	37 50	
Sundry disbursements by department:		
Postage, $63.67; telegrams, etc., $22.73; stationery, $11.57; supplies and sundries, $62.03	160 00	
Superintendent's Dept., freight, $20.97; labour, $523.87; material, $715.18	1,260 02	
Department of Medical Research — Banting, authorized transfer (2 years)	5,000 00	
Contributions to Pension Funds	282 09	
	$37,353 27	
Charged to Insulin Committee Grants	34,853 27	
	$2,500 00	
		$10,000 00
		$29,211 45

APPENDIX III

UNIVERSITY PRESS

Ledger Balances (net) as at 30 June, 1937	$52,851 58	
Transferred to General University Revenue, appropriation by Board of Governors for 1937-38	30,000 00	
		$22,851 58
Transactions for the year ending 30 June, 1938.		
Receipts, including $190.83 outstanding and receivable on 30 June, 1938		247,534 35
		$270,385 93
Expenditures:		
Salaries, wages and ordinary operating expenses	$244,257 77	
Additions to plant and equipment	15,000 00	
Alterations to building	1,304 36	
Accumulated appropriations for School of Engineering Research written back to general revenue	1,723 39	
Interest on debit balances	854 33	
		$263,139 85
Net Balance at credit 30 June, 1938		$7,246 08

NOTE

The above figures cover the accounts passing through the Bursar's Office. Supplementary thereto the Manager of the Press reports on hand, inventories, etc. (including work in progress) $34.715.92; accounts receivable (less reserve) $12.058.01; office furniture, etc., $661; less sundry liabilities (net) $1.316.68; making with the above cash balance of $7.246.08, a total surplus over liabilities of $53,364.33.

DETAILS OF EXPENDITURE

Salaries and wages ($90,528.15):	
A. Gordon Burns, Acting Manager, 12 mos.	$3.600 00
Miss E. M. Walker, Secretary, 12 mos.	1.950 00
Miss E. Baguley, Cashier, 12 mos.	1.350 00
Miss I. E. McTaggart, Chief Clerk, Book Department, 12 mos.	1.350 00
Clerks, each 12 mos.:	
Miss W. Hills	1.140 00
Mrs. Florence Friendship	1,092 00
Miss I. Westwood	1.050 00
Miss M. Storey	1,000 00
Miss R. Buchan	936 00
Miss M. D. Carter	884 00
Miss A. Mullowney	884 00
Miss I. Potter	850 00
Miss M. Beattie, 7 mos. @ $112.50; 4 mos. @ $56.25	1,012 50
Geo. Edwards, Caretaker, 12 mos	1.550 00
A. Bigwood, Messenger, 7 mos.	393 75
Pay lists, wages of employees	71,485 90
Editorial Services ($5.150.00):	
Miss Alison Ewart, General Editor, 12 mos.	1.900 00
Miss Mary L. Thompson, Assistant to General Editor, 12 mos.	1,200 00
G. W. Brown	500 00
A. S. P. Woodhouse	400 00
V. W. Bladen	400 00
E. K. Brown	400 00
W. P. M. Kennedy	250 00
A. Brady	100 00
Payments to contributors to publications	1,622 50
Payments of royalties and returns from sales	7.082 02
Supplies and general operating expenses ($139,875.10):	
Aikenhead Hardware Ltd., hardware	45 13
Alexander & Cable, lithographing diplomas	119 00
H. E. Allin Bros., gilding	121 84
D. A. Balfour Co., carbon paper and stencils	54 37
Barber-Ellis Ltd., envelopes, paper, etc.	2.675 13
Bostitch Ltd., staples	65 00
R. Bourne & Son, covers	115 00
Brigden's Ltd., maps, zincs, etc.	162 90
J. R. Brooks, drawings	26 75
Brown Bros., paper, ink, binders, etc.	3.356 06
Buntin-Reid Co., paper, etc.	352 07
Chas. Bush Ltd., ink	813 34
Bernard Cairns, rubber stamps	40 62
Canada Carbon & Ribbon Co., coupons	189 00
Canada Metal Co., metal	1.115 42
Canada Paper "Wholesale" Ltd., paper	294 19
Canadian Cleaning Co., window cleaning	42 60
Canadian Linotype Ltd., type	47 69
Canadian Pacific Railway Co., telegrams	51 08
Canadian Pad & Paper Co., paper and portfolios	150 34
Eugene E. Carroll, sharpening knives	38 90
Carroll's Canadian Metals, metal	132 84
Walter A. Carveth Co., instrument cases, forceps, field glasses, etc.	194 43
Delang & Pettit, glue	149 69
Walter Dickenson & Co., pencils, gummed tape, etc.	482 16
Ditto of Canada Ltd., ink	54 00
Dixon Pencil Co., pencils	32 13
Dominion Blank Book Co., note books	570 16
Dominion Electro-typers and Engravers Ltd., zinc and copper half-tones	271 24

Dominion Envelope & Cartons Ltd., envelopes	147	69
Eberhard Faber Pencil Co., pencils	41	93
E. B. Eddy Co., paper	5.933	35
A. E. Edwards, book ends	30	00
Elliott Addressing Machine Co., stencils	49	37
J. E. Emerson, electrical repairs	70	12
W. J. Gage & Co., envelopes, card cabinets, squares. covers, etc	1.845	86
D. Gestetner Ltd., ink, paper and stencils	174	06
Grand & Toy, cards, paper, covers, etc	310	24
Miss F. Hahn, mimeographing	38	00
G. A. Hardie & Co., wipers	74	40
W. E. Hardman & Co., ruling	56	25
L. D. Hawthorne, commissions	114	72
Henderson Bros., ruling and paper	380	05
Howard Bros., gilding and stamping	387	44
Imperial Oil Ltd., gas and oil	59	70
C. H. Johnson & Son, cartage	178	00
F. Roy Kemp, post cards	37	00
Keuffel & Esser, graph paper, etc	203	60
The Levi's, wipers	174	31
Luckett Loose Leaf Ltd.. covers and refills	1.187	99
Lumley & Hewitt, ruling	59	25
A. J. McCrae & Co., drawing pencils	52	72
Gordon MacKay Co., cloth	45	50
Meredith, Simmons & Co., paste	41	70
Mono-Lino Typesetting Co., typesetting	325	84
Monotype Co., paper and type metal	786	58
Moyer School Supplies, maps	67	16
National Stationers Ltd., paper	27	00
Nichols Advertisers Ltd., pads	59	88
Office Specialty Mfg. Co., folders and guides	29	19
Paper Sales Ltd., paper	97	29
Parker Fountain Pen Co., pens, pencils and repairs	389	39
R. A. Phillips Ltd., crests and pennants	133	92
Photo Engravers & Electrotypers Ltd., electros, etching, embossing. etc.	1,033	25
Photogelatine Engraving Co., Christmas cards and prints	318	34
Premier Engravers & Electrotypers Ltd.. engraving, prints, etc	1.828	94
Provincial Paper Ltd., paper	10,939	83
Queen City Paper & Twine Co., paper and twine	280	41
Raine Engraving Co., dies, etc	32	24
Ratcliffe Paper Co., paper	98	91
Reed Canadian Engravers Ltd., engraving zincs, dies, etc	1,811	42
Reliance Engravers, half-tones, etc	342	71
Remington-Rand Ltd., typewriter	60	00
Robbins & Townsend, typewriter rental and inspection	179	03
Ryerson Press, binders, adhesive cloth, paper, etc	182	54
W. A. Sheaffer Pen Co., repairs	66	45
Howard Smith Paper Mills, paper	3,977	97
L. C. Smith & Corona Typewriter Co., portable typewriter	58	32
Spicers Ltd.. book paper	185	95
Standard Embossing Co., embossing	414	18
Stephens Sales Ltd., stencils	86	99
Sun Gravure Ltd., Christmas folders	278	48
Telfer Paper Box Co., boxes	145	04
B. & F. H. Thompson Co., gold leaf	94	50
Thomson Co., stationery	264	68
Toronto Envelope Co., envelopes	1.086	64
Toronto Graphic Arts Council, dues	496	50
Toronto Type Foundry Co., brushes, wire, etc	130	95
Townsley Printers' Supply & Machinery Co., type, blades, rules, etc.	38	59
Underwood-Elliott-Fisher Ltd.. typewriters, ribbons, paper, etc	178	25
United Paper Mills paper	4.200	83
Universal Thread Co., silk	45	58
Victoria Paper & Twine Co., cups, twine, etc	365	05
H. W. Wetter, commissions	33	90
Wahl Co., refills and repairs	71	19
Waterman's Fountain Pen Co., ink, pens and repairs	286	59
Whyte, Hook Paper Co., buckram and vellum	124	06

Wilson, Munroe Co., paper	1.527 72
Books, etc.:	
Thomas Allen & Co.	65 14
Alleyn & Bacon	26 69
American Book Co.	178 98
American Chemical Society	40 70
American Institute of Steel Construction	151 27
American Literary Association	213 34
American Medical Association	99 11
American Public Health Association	42 71
Angus & Robertson	91 02
Annual Review of Biochemistry	60 00
D. Appleton Century Co.	539 79
Baker & Taylor Co.	71 49
Barnes & Noble	344 20
Blackie & Sons	218 02
P. Blakiston, Son & Co.	774 03
Blue Ribbon Books	31 14
R. R. Bowden Co.	104 77
F. A. Brockhaus	118 09
Bureau of Publications, Teachers' College	44 74
Butterworth & Co.	36 60
Canadian Dental Research Foundation	35 90
Canadian Geographical Society	208 50
Canadian Medical Book Co.	33 42
Canadian Nurses' Association	26 00
Canadian Pharmaceutical Association	65 25
Canadian Political Science Association	119 20
Carswell Co.	137 07
Cassell & Co.	230 77
W. R. Chambers Ltd.	59 38
Chemical Rubber Co.	338 00
J. A. Churchill & Co.	178 44
Clarke, Irwin Co.	2.370 49
Columbia University Press	127 78
Commissioner of Patents	30 00
Commonwealth Fund	65 42
Cooper Ornithological Club	37 78
Copp, Clark & Co.	1.707 14
Council on Foreign Relations	34 30
Thos. Y. Crowell Co.	57 30
Wm. Dawson & Son	44 05
J. M. Dent & Sons	845 98
Dental Items of Interest	170 08
Walter Dickinson	35 55
Dodd, Mead & Co.	1.229 23
Doubleday, Doran & Co.	71 10
Encylopaedia Britannica Ltd.	212 98
Family Welfare Association	28 45
Farrar & Rinehart	98 36
Forest Press	103 20
W. J. Gage & Co.	150 66
Gaulon & Fils	341 39
Ginn & Co.	1.461 87
Harcourt, Brace & Co.	497 89
Harper Bros.	148 11
Harvard Law Review Association	86 06
Harvard University Press	206 02
Paul B. Haebner Inc.	32 86
Henry Holt & Co.	1.570 75
H. M. Stationery Office	73 90
Houghton, Mifflin Co.	556 29
International Correspondence Schools	140 74
Johns Hopkins Press	51 84
Dr. W. Junk	25 34
Koehler, Volckman & Co.	624 94
Otto Lange	67 21
Lea & Febiger	2.054 58
H. K. Lewis & Co.	26 97

Life Underwriters' Association of Canada	27 20	
J. B. Lippincott Co.	162 83	
Longsman, Green & Co.	1,249 25	
J. B. Lyon Co.	28 00	
McAinsh & Co.	3.901 47	
McClelland & Stewart	259 52	
McGraw-Hill Book Co.	2.786 70	
Geo. J. McLeod Ltd.	86 11	
Macmillan Co.	6,260 92	
Miss Janet B. Merrill	30 00	
Musson Book Co.	876 91	
National Educational Association	36 37	
National Research Council	119 25	
Thos. Nelson Co.	481 20	
Oxford University Press	87 55	
A. F. Pattee	76 84	
George Philip & Son	198 07	
Sir Isaac Pitman & Sons	950 89	
Prentice, Hall, Inc.	365 31	
Princeton University Press	41 37	
Receiver-General of Canada	53 32	
Reinhold Publishing Co.	70 98	
Ritter Dental Mfg. Co.	33 60	
H. M. Rowe Co.	46 56	
Ryerson Press	551 26	
Russell Sage Foundation	26 29	
S. J. Reginald Saunders	34 34	
Carl Schoch	25 31	
Charles Scribners Sons	225 00	
Simpkin, Marshall Ltd.	2,860 10	
Southwestern Publishing Co.	178 98	
Stamford University Press	26 14	
Star Book Co.	32 17	
G. E. Stechart & Co.	234 12	
Sutherland International Despatch	57 11	
Chas. E. Thomas	59 28	
University of Chicago Press	347 10	
University of Minnesota Press	34 76	
University of North Carolina	28 85	
University of Pennsylvania Press	32 36	
University Prints	119 38	
University Society	34 17	
D. Van Ostrand & Co.	699 69	
Visible Records Ltd.	38 16	
George Wahr & Co.	40 93	
Warwick & Rutter	41 95	
John Wiley & Sons	2.494 44	
Williams & Wilkins	6.105 40	
H. W. Wilson & Co.	87 03	
World Book Co.	27 72	
Yale University Press	152 06	
Accounts under $25 (422)	2,469 60	
Sundry purchases, second hand books	442 68	
A. G. Burns, travelling expenses	89 90	
Microscopes	8,058 60	
Advertising, $735.31; postage and excise stamps, $3,245.69; bank exchange, $132.81; cleaning, $148.80; freight, etc., $465.31; meals for night work, $153; sundries, $178.27	5,059 19	
Heat, $1.086.30; electric current, $857.40; gas, $320.93; telephone, $362.70; water, $95.12	2,722 45	
Superintendent's Dept., freight, $1,367.23; labour, $589.33; material, $778.83; Customs entries, $21.76	2.757 15	
John Woods, compassionate allowance for illness alleged to have been caused by employment in the Press	250 00	
Contributions to Employees' Pensions Account	934 07	
Sales Tax, Collector of Customs and Excise	7.558 16	
		$244.257 77

Additions to plant and equipment:		
Canadian Linotype Ltd., type	115 82	
Harris, Seybold, Potter, Ltd., stitcher, perforating machine, etc.	910 00	
Linotype Parts Co., parts	43 52	
Moore Type Foundry Co., cabinet cases and type	266 87	
Monotype Co., matrices, cases, etc.	1.132 81	
National Cash Register Co., cash register	676 20	
Toronto Type Foundry Co., folder, feeder, stamper and attachments	11.255 00	
Townsley Printers' Supply & Machinery Co., type, press, locks, etc.	248 04	
W. Wareham, overhauling and adjusting linotypes	59 50	
Accounts under $25 (3)	30 38	
Superintendent's Dept., labour	261 86	
		$15.000 00
Alterations to Building, etc.:		
T. Eaton Co., chairs, tables, couch, etc.	$53 64	
T. H. Hancock, boxes	132 22	
Superintendent's Dept., labour, $714.33; material, $404.17	1.118 50	
		$1.304 36
Accumulated appropriations for School of Engineering Research, written back to General Revenue		1,723 39
Interest charged on debit balances		854 33
		$263.139 85

APPENDIX IV.

SUPERINTENDENT'S STORES AND SUNDRY LABOUR ACCOUNT

Ledger Balance, 30 June, 1937		$14.477 50
Purchases made during 1937-38:		
Aikenhead Hardware Ltd., hardware	$2.179 97	
Aluminum Co., paste, castings, etc.	158 24	
Armstrong Cork & Insulation Co., cork insulating, etc.	78 64	
Armstrong Door Co., sashes and doors	25 92	
Associated Chemical Co., chemicals, etc.	180 43	
Baines & David, steel tubing, plates, etc.	519 63	
Beardmore & Co., belting	180 56	
Beldam's Asbestos Packing & General Mfg. Co., packing, etc.	249 33	
Berry Bros., paint, varnish, etc.	309 96	
Black & Dacker Mfg. Co., hammers, drills, etc.	148 17	
Boake Mfg. Co., lumber	564 20	
Boeckh & Co., brushes	57 88	
British Aluminum Co., aluminum	61 35	
Brown Boggs Foundry & Machine Co., shears	348 65	
Builders' Flooring Millwork Ltd., lumber	71 02	
Builders' Supplies Ltd., stone, gravel, etc.	186 09	
Robert Bury & Co., lumber	2.048 93	
Canada Building Materials, concrete, gravel and gyproc	293 80	
Canada Hardware Ltd., hardware	92 36	
Canada Metal Co., weights, solder, etc.	340 66	
Canada Wire & Cable Co., wire	460 35	
Canadian Allis-Chalmers Ltd., electrical supplies	112 09	
Canadian Asbestos Ltd., asbestos, lumber, etc.	339 88	
Canadian Blower & Forge Co., fan and blower	104 27	
Canadian Brass Co., brass	61 25	
Canadian Durex Abrasives Ltd., paper, cloth, etc.	137 46	
Canadian Fairbanks-Morse Co., swivel vice, lathes, mop truck, etc.	217 09	
Canadian General Electric Co., electrical supplies	396 30	
Canadian Germicide Co., towels, soap, etc.	352 23	
Canadian Industrial Alcohol Co., alcohol	79 66	
Canadian Industries Ltd., chemicals, varnish, paint, etc.	273 75	
Canadian Johns-Manville Co., insulation, flexboard, etc.	115 32	
Canadian National Carbon Co., brushes, batteries, flash lights, etc.	263 26	
Canadian National Institute for the Blind, brushes, brooms, etc.	184 39	
Canadian Ornamental Iron Co. steel frames	94 75	
Canadian Power Regulator Co., thermostats	88 05	
Canadian S. K. F. Co., bearings	44 50	
Canadian Sirocco Co., electrical supplies	322 58	
Canadian Westinghouse Co., refrigerators, fans, toasters, etc.	1.643 83	
Central Scientific Co., glassware and chemicals	65 42	

Century Chemical Products Co., polish	51 94
Chadwick Electric Co., electrician's supplies	1,457 12
Colling Tire Shop, casings, tires, etc	180 13
Commercial Lithograph Co., lithographing	138 46
Compressed Air Equipment Co., rental of compressors	108 55
Consolidated Plate Glass Co	305 84
Continental Can Co., cans	36 34
Corbett-Cowley Ltd., uniforms, coats and shirts	466 58
Cordage Distributors Ltd., rope	43 28
Corning Glass Works	359 40
Coulter Copper & Brass Co., tubes	31 40
Crane Ltd., plumber's supplies	1,969 35
Cross Polishers Ltd., furniture polish	25 44
Crown Diamond Paint Co., brushes and paint	1,452 10
W. H. Cunningham & Hill Ltd., plumber's supplies	306 57
Currie Products Ltd., pitch, cement, etc	205 06
Darnell Corporation, sockets and casters, etc	178 92
Dean Bros., castings and locks	36 12
Diamond Cleanser & Soaps Ltd., cleansers	591 02
W. E. Dillon & Co., steel grilles, etc	75 07
Henry Disston & Sons, saw blades, etc	170 51
Harvey E. Dodds Ltd., sponges and chamois	148 90
Dominion Bridge Co., plates, bars, etc	173 31
Dominion Carbon Brush Co., brushes	107 54
Dominion Glass Co., bottles and jars	45 27
Dominion Linseed Oil Co	337 71
Dominion Oxygen Co	250 95
Dominion Radiator & Boiler Co., blower grates, fire doors, tubes, etc.	435 22
Downing & Co., fuses, etc	391 11
Drew, Brown Ltd., wax	153 90
Drummond, McColl & Co., steel	146 56
C. A. Dunham & Co., plumber's supplies	469 87
Dunlop Tire & Rubber Goods Co., rubber supplies	180 50
T. Eaton Co., wall paper, linoleum, cheesecloth, towels, etc	352 77
Electrolux Ltd., cleaning unit, etc	82 73
Empire Brass Mfg. Co., plumber's supplies	206 54
Enterprise Sales & Distributors, reflector buttons	57 74
Evans & Co., chamois	28 71
Exide Batteries of Canada, batteries, etc	175 68
E. B. Fielding & Co., turpentine	711 08
Thos. Firth & John Brown Ltd., steel	260 15
Firestone Tire & Rubber Co., durometer, dampers, etc	36 76
Fitzgerald, McAvoy Wire Goods, wire boxes	36 26
Flexible Shaft Co., joints, etc	79 00
Garage Supply Co., batteries, etc	30 77
Garlock Packing Co., packing	39 90
General Dry Batteries Ltd., batteries	276 25
General Steel Wares Ltd., cans, baskets, pails, etc	338 06
Good Specialties Ltd., hardware	172 96
Gooderham & Worts, alcohol	8,746 80
Goodyear Tire & Rubber Co., hose, friction tape, etc	79 16
Gratton Ltd., condenser, changing tanks, etc	116 57
B. Greening Wire Co., zinc	126 44
Grinnell & Co., plumber's supplies	1,994 60
Gunite Waterproofing Ltd., ferrotile	97 50
Gurney Foundry Co., radiators, fire pots, grates, etc	323 00
Gutta Percha & Rubber Ltd., gaskets, hose, couplings, etc	193 65
Hamilton Gear & Machine Co. reducer	85 50
Joe Hampson, cement and sand	66 00
G. A. Hardie & Co., cheesecloth	67 50
Harpham Bros., casing	102 51
W. Harris & Co., glue	50 22
Geo. H. Hees, Son & Co., venetian blinds, etc	86 39
Geo. M. Hendry & Co., blackboards and chalk	48 02
John T. Hepburn Ltd., valve assemblies	42 94
Edmund Hind Lumber Co., cement, etc	60 36
Hoover Co., vacuum cleaner, etc	93 89
Huntington Laboratories Ltd., seal-o-san, etc	35 63
Hydro-Electric Power Commission of Ontario, current	2,928 98
Imperial Oil Ltd., oil, wax, etc	90 32

Imperial Varnish & Color Co., paint and enamel	31 70
Italian Mosaic & Tile Co., tiling	480 39
Samuel Jardine, soap and oil	696 78
Johnson Temperature Regulating Co., heating system control repairs	29 50
Geo. Keith & Sons, grass seed	270 25
Walter Kiddie & Co., fire extinguishers	30 80
Kilgour's Ltd., towels, plates, etc.	3.195 06
La France Fire Engine & Foamite Ltd., extinguishers	830 62
R. Laidlaw Lumber Co., lumber	80 98
J. S. Lawson, flashing	25 00
Arthur S. Leitch & Co., cooler pump, filters, etc.	355 70
J. H. Lock & Son, refrigerator, etc.	677 50
Lowe Bros. Co., paint, enamel and varnish	249 42
McBain Foundry, castings	74 80
McBean & Verrall, lumber	109 56
MacCallum Mfg. Co., sweeping compound	45 00
McColl-Frontenac Oil Co., oil	1.897 27
S. McCord & Co., cement, etc.	307 30
McDermid Bros., builder's material	217 78
MacDonald Mfg. Co., wax	55 86
McGregor-McIntyre Iron Works, supplying and erecting platform extension	221 00
McIntyre & Taylor, steamfitters' supplies	35 56
Alex. McKay & Co., stone, cement, etc.	71 37
Frank G. MacKay & Co., chalk	42 93
Masco Co., electrician's supplies	2,013 49
A. Middleton & Co., paint and varnish	449 25
Minneapolis-Honeywell Regulator Co., thermostats, blowerstats, dampers, switches, etc.	438 93
Moffat, Ltd., stove, elements, etc.	173 06
Monarch Belting Co., belting	141 57
Wallie Moore Paint Co., paint and enamel	641 55
Jas. Morrison Brass Mfg. Co., plumber's supplies	1.177 84
Mount Royal Metal Co.	60 33
Moyer School Supplies, chalk	77 36
A. Muirhead Co., paint and varnish	251 97
J. Muldoon, Ltd., cement and plaster paris	45 17
Mundet Cork & Insulation Ltd., pipe covering and cork board	101 17
Alexander Murray Co., roofing and builder's supplies	103 19
National Drug & Chemical Co., chemicals, etc.	125 05
National Grocers Co., matches, sugar, etc.	198 67
National Sewer Pipe Co., pipe	34 50
John Nelson & Son, plastering	75 00
Neptune National Meters, meters	41 32
New Sanitary Wipers & Waste Co., cheesecloth, etc.	271 30
Nichols Chemical Co., soad ash, ammonia, etc.	241 26
Northern Electric Co., electrician's supplies	172 90
O'Cedar of Canada, polish	66 92
Office Specialty Mfg. Co., transfer cases	33 00
Oliver Lumber Co., lumber	145 78
Ontario Ready Mix Concrete Ltd., concrete	65 54
Ontario Rubber Co., tubing, etc.	35 24
Otis-Fensom Elevator Co., parts	26 31
Pacific Mills Ltd., paper	850 00
Pannill Door Co., doors, lumber, etc.	101 25
Pease Foundry Co., firepot and cement	141 27
Peckover's Ltd., steel	424 57
Perrin & Turner, valves, gauges, etc.	42 48
H. W. Petrie Ltd., machine work	124 85
Phippen & Son, bricks	120 30
Pilkington Bros., plumber's supplies	1.405 05
Presco Co., paint	51 45
Proctor & Gamble Co., soap	339 57
Provincial Treasurer of Ontario, truck license, $36; mixing wax license, $1.80	37 80
Robert T. Purves & Co., packing, asbestos, etc.	116 64
Geo. Rathbone Lumber Co., lumber	1.771 97
Renold-Coventry Ltd., speed reducer	228 24
Robbins & Myers Co., motor, fan, bearings, etc.	89 89
James Robertson & Co., plumber's supplies	541 80

Robinson Clay Products		37 53	
Roelfson Elevator Co., elevator repairs and tractor drum		120 99	
Roofers' Supply Co., roofing material		1.396 16	
Routery Bros., plastering		510 70	
Salem's Garage, repairs to truck		99 79	
G. W. Sadler Co., belting		47 68	
Samuel Son & Co., steel, iron, zinc, etc		1,363 69	
Sangamo & Co., motor repairs		81 75	
Satin Finish Hardwood Flooring Ltd., lumber		424 51	
Scarfe & Co., paint and varnish		259 52	
Scythes & Co., rope, twine, etc		25 31	
Shannon Bros., lumber		1,170 45	
Shaw & Wright, hardware		701 60	
Sheldon's Ltd., ventilating apparatus, cooling coils, etc		1,209 26	
Shell Oil Co., gasoline		1,762 80	
W. Sherwood & Son, repairs to motors		480 60	
Shipway Iron & Wire Co., screens		287 58	
T. S. Simms & Co., brushes and brooms		248 60	
Robt. Simpson Co., linen, chairs, tumblers, linoleum, etc		684 41	
Singer Sewing Machine Co., machine		68 72	
Charles A. Smith Ltd., soap		421 80	
John B. Smith & Sons, lumber		1,911 93	
Soclean Ltd., floor cloths and dusters		68 38	
Square D Co., electrician's supplies		1,042 81	
G. F. Sterne & Sons, cement, floor finish, etc		132 45	
S. F. Stinson & Son, lumber		103 86	
Stewart & Wood, glue, paint and enamel		235 33	
Michael Stuart Co., traps and bellows		125 61	
Sturgeon's Ltd., paints, etc		35 48	
B. F. Sturtevant & Co., fans		496 31	
Sun Oil Co., oil		395 88	
Superior Electric Supply Co., electrician's supplies		1,586 00	
Supertest Petroleum Corporation, gasoline		684 00	
J. A. M. Taylor Tool Co., drills		25 71	
Taylor-Forbes Ltd., radiators		211 94	
Taylor Instrument Co., thermometers		42 98	
Textile Products Ltd., cheesecloth, mops, factory cotton, etc		926 47	
Thayer's Ltd., gasoline and oil		4,158 20	
Toronto Asphalt Roofing Co., roofing		197 58	
Toronto Iron Works		38 88	
Trelco Ltd., varnish and oil, etc		59 91	
Truscon Steel Co., wire mesh		45 12	
Turnbull Elevator Co., fire door, etc		171 38	
United Steel Corporation, belts, collars, pulleys, etc		132 78	
Vacu-Draft Ltd., installing vacu-draft		139 35	
Victoria Paper & Twine Co., towels		670 00	
C. C. Wakefield & Co., oils		736 60	
Wayne Co., meter pump		216 00	
West Disinfecting Co., disinfectant		297 87	
White's Hardware Ltd., hardware		789 84	
A. C. Wild & Co., blocks, pipes, cement, etc		401 44	
Wilkinson-Kompass Ltd., hardware		67 28	
A. R. Williams Machinery Co., cutter		34 40	
J. A. Wilson & Co., electrician's supplies		331 98	
Window Shades & Fittings, venetian blinds		149 00	
Wonderful Soap Co., soap		40 50	
G. H. Wood & Co., soap, drinking cups, etc		108 05	
A. L. Wynston Jr. Ltd., electrician's supplies		2.750 09	
University Press, printing and stationery		98 39	
Accounts under $10 (166)		1.467 34	
Superintendent's Dept., freight, $214.03; labour, $5,477.46; material, $1,120.69		6.812 18	
		$105,773 28	
Less credits: Dominion Government refund of tax on alcohol	$8,581 65		
Ontario Government refund of tax on gasoline and varsol	98 72		
Sundries	10 15		
		8.690 52	
			$97.082 76
			$111.560 26

Sundry labour as per pay lists:		
Trade mechanics and general workmen	$130.367 69	
Firemen, nightwatchmen, etc.	52.082 06	
Cleaners and miscellaneous	107.286 08	
		289.735 83
		$401.296 09

Apportionment of the foregoing:

	Labour	Material
Administration ($11,070.74):		
Bursar's Office	$21 41	$8 85
Registrar's Office	73 74	....
Superintendent's Office	1,783 27	64 59
Convocation Hall and Simcoe Hall	8,045 57	1.032 51
President's House	29 52	11 28
Library ($5,221.06):		
Maintenance	633 91	399 98
Building	3.269 00	918 17
Royal Ontario Museum	44.453 67	3,156 05
Athletics, Physical Training, Military Studies, etc. ($8.742.20):		
Athletics and Physical Training — Men	104 97	48 53
Athletics and Physical Training — Women	4 90	6 01
Health Service — Women	7 13	....
Military Studies	9 82	8 29
Hart House	5.222 28	2,074 37
Women's Building (44 Hoskin Avenue)	459 73	53 98
Military Studies Building	509 34	232 85
Examinations	78 18	1 27
Faculty of Arts ($41,581.76):		
Applied Mathematics	1 05	....
Physics	650 43	647 41
Astronomy	36 23	267 26
Geology	86 82	104 98
Mineralogy	155 02	76 46
Chemistry	583 09	562 32
Biology	578 91	662 35
Botany	497 40	413 44
Fine Art	5 08	3 61
Geography	35 14	33 14
Law	21 28	19 36
Psychology	80 52	219 14
University College General Expenses	10 97	6 46
University College Building	8.676 15	1,534 53
McLennan Laboratory	2,884 00	819 81
Chemical Building	2,772 12	737 46
Biological Building	3,229 09	743 76
Botany Building	2.933 66	452 55
Baldwin House	611 53	135 22
No. 43 St. George Street	591 09	63 05
No. 45 St. George Street	674 47	162 38
No. 47 St. George Street	420 44	58 23
Economics Building	4.286 14	765 85
Psychology Building	1.594 03	245 17
David Dunlap Observatory	1.184 40	248 76
Faculty of Medicine ($31,921.11):		
Anatomy	216 79	366 38
Pathology and Bacteriology	1.034 05	522 93
Pathological Chemistry	106 28	154 26
Pharmacy and Pharmacology	129 75	138 86
Bio-Chemistry (including Zymology)	158 89	529 06
Physiology	36 60	288 26
Hygiene and Preventive Medicine	102 27	56 46
Medicine	66 61	115 77
Paediatrics	200 57	255 34
Surgery	3 30	5 42
Ophthalmology	4 50	2 00
Oto-Laryngology	28 23	11 85
Art Service	4 10	70 03
General Expenses	264 24	318 66

Medical Building	3.746 95	943 79	
Banting Institute	7.334 78	1,534 54	
Anatomical Building	2.176 32	387 10	
Hygiene Building	9.370 52	1,235 65	
School of Hygiene	....	10 59	
Faculty of Applied Science ($20.470.19):			
Electrical Engineering	136 33	142 22	
Mechanical Engineering	368 43	462 59	
Civil Engineering: Municipal and Structural	32 33	82 97	
Civil Engineering: Surveying and Geodesy	27 50	113 87	
Mining Engineering	459 80	427 03	
Metallurigcal Engineering	53 56	50 39	
Chemical Engineering and Applied Chemistry	1,188 11	817 79	
School of Architecture	92 91	73 81	
Engineering Drawing	87 77	25 10	
Applied Physics	100 20	160 68	
General Expenses	48 18	2 49	
Photographic Service	6 75	9 41	
Mining Building (including Mill Building)	6,002 38	1,736 44	
Engineering Building	3,274 84	825 51	
Electrical Building	2,783 22	664 81	
Geodetic Observatory Building	191 04	21 73	
Faculty of Dentistry ($11,307.79):			
Laboratory and Infirmary Supplies, etc.	2.998 88	1,881 03	
Dental Building	5,062 97	1,364 91	
Faculty of Household Science ($3,806.07):			
Household Science Department	441 04	392 45	
Food Chemistry Department	94 82	74 57	
Household Science Building	2,368 08	435 11	
Faculty of Forestry ($966.10):			
Maintenance of Department	256 70	130 02	
Forestry Building	480 34	99 04	
School of Nursing ($2,925.26):			
Residence Maintenance	25 69	21 43	
Building, No. 7 Queen's Park	2,197 32	680 82	
Social Science	70	01	
University Extension and Publicity	406 52	34 69	
Men's Residences	10,448 25	1,948 60	
Women's Residences and Union ($6,310.97):			
Maintenance of Buildings	3,683 78	994 70	
Housekeeping Account	706 12	926 37	
Central Power Plant	26.627 41	1,764 24	
Miscellaneous and General ($34.066.87):			
Central Stores	1.150 00	....	
Grounds	11,332 26	1,348 75	
Protective Service	16,052 51	20 81	
Telephones	4,162 54	....	
Special Research (including Banting and Best)	5.428 66	5.338 50	
University Press ($2,748.52):			
Operating	589 33	778 83	
Plant	261 86	....	
Alterations	714 33	404 17	
Ontario College of Education	12.630 97	2.485 01	
Work done for University organizations, members of staff, sundry incidental accounts, etc. (including Accounts Receivable on 30 June, $6.091.06)	44.471 15	49,804 50	
Cash sales	....	781 38	
	$289,735 83	$101,273 16	
			$391.008 99
Ledger Balance, 30 June, 1938			$10.287 10

(Superintendent's Inventory Value, $20,277.57)

APPENDIX V.

ONTARIO COLLEGE OF EDUCATION

Balance on hand 30 June, 1937	$43,857 62
Receipts, 1937-38:	
Legislative Grant	201,675 00
Fees of Students	64,323 64
Aura Lee Grounds	600 00
	$310,456 26
Expenditure for salaries and maintenance for the year ending 30 June, 1938	275,590 78
Balance on hand 30 June, 1938	$34,865 48

Salaries

J. G. Althouse, Dean (paid also $350 for Extension Work)	$6,000 00
Professors:	
P. Sandiford, Educational Psychology, and Director of Educational Research (paid also $140 for Extension Work)	5,700 00
F. E. Coombs, Methods in Elementary Subjects (paid also $350 for Extension Work)	4,700 00
G. A. Cornish, Methods in Science	4,700 00
W. C. Ferguson, Methods in Modern Languages (resigned 31 August)	783 34
G. M. Jones, Methods in English and History	4,700 00
J. O. Carlisle, Methods in Classics, also Supervisor of Practice-Teaching	5,000 00
W. J. Lougheed, Methods in Mathematics (paid also $66 for Extension Work)	4,400 00
Associate Professors:	
Miss W. G. Barnstead, also Director of Library School (paid also $80 for Summer Session and Graduate Work)	4,000 00
Miss L. L. Ockley, Household Science	4,200 00
W. G. Bennett, Methods in Commercial Subjects (paid also $162.50 for Extension Work)	4,200 00
B. C. Diltz, Methods in English and History	3,950 00
Assistant Professors:	
Miss Bertha Bassam, Library Science in Library School (paid also $80 for Summer Session and Graduate Work)	2,800 00
Miss Helen B. St. John, Modern Languages	3,800 00
J. A. Long, Educational Psychology (paid also $210 for Extension Work and $30 in School of Nursing)	3,600 00
Lecturers, also Instructors in University Schools:	
Miss A. Marsh, Art	3,125 00
G. N. Bramfitt, Music	4,000 00
F. Halbus, Physical Training	3,625 00
A. T. McLachlan, Shopwork (paid also $300 for Extension Work)	3,200 00
Miss H. L. Bryans, Physical Training, @ $3,300 (on leave of absence at half salary from 1 October to 31 January)	2,750 00
Mrs. Norma B. Laing, Physical Instructor, 4 mos. from 1 October (substitute for Miss Bryans)	500 00
Miss A. E. Robertson, Lecturer, Household Science	3,300 00
Miss Sally A. Ballard, Reviser and Instructor in Library Science, Library School	1,500 00
Instructors in University Schools:	
A. C. Lewis, Headmaster	4,600 00
R. F. S. Baird, Teacher-Librarian	3,400 00
G. A. Cline, @ $4,000 (on leave of absence without pay from 1 November)	1,333 33
A. G. Croal (paid also $27 for Extension Work)	3,600 00
E. L. Daniher	4,000 00
J. L. Gill	3,800 00
H. A. Grainger (paid also $75 for Extension Work)	4,000 00
J. A. Irwin	4,000 00
H. McGuire	3,200 00
Norman McLeod	3,900 00
J. H. Mills (paid also $63 for Extension Work)	4,000 00
N. L. Murch (paid also $114 for Extension Work)	4,000 00

L. H. Newell	2.600 00	
P. A. Petrie	3.950 00	
C. E. Phillips (paid also $400 as Instructor in Pedagogy; $200 in School of Nursing. $350 for Extension Work)	3.750 00	
W. L. C. Richardson	4.000 00	
W. R. Stewart	2.850 00	
J. G. Workman	4,000 00	
G. W. Cochrane, Instructor in Swimming and Supervisor of U. T. S. Athletic Field and Sports	2,500 00	
Special Instructors in Library Science:		
Angus Mowat. Administration (paid also $20 for Summer Session and Graduate Work)	150 00	
Miss L. H. Smith, Work with Boys and Girls	450 00	
W. S. Wallace, College and University Libraries (paid also as University Librarian, and $60 for Summer Session and Graduate Work)	350 00	
Miss Jean Merchant, School Libraries	150 00	
Miss M. Edna M. Poole, Special Libraries	150 00	
C. R. Sanderson, Circulation of Books	150 00	
Miss Frances Trotter, Story-Telling	150 00	
Occasional Lecturers:		
J. F. Macdonald (paid also in Faculty of Arts)	150 00	
Miss I. Locheed (including expenses $5)	50 00	
Miss F. Waldon (including expenses $5)	50 00	
J. A. Lowe (including expenses $16.20)	46 20	
F. Landon (including expenses $17.70)	40 25	
Miss K. Moyer (including expenses $9.50)	39 50	
Miss D. Carlisle (including expenses $17.50)	32 50	
E. C. Kyte (including expenses $15.50)	30 50	
V. Lange (paid also in Faculty of Arts)	30 00	
E. J. Pratt (paid also in Faculties of Medicine and Dentistry)	30 00	
Miss M. Tremaine	30 00	
F. H. Walter	30 00	
G. S. Brett (paid also in Faculty of Arts and Graduate Studies)	30 00	
Miss I. Cole (including expenses $7.90)	22 90	
H. C. Gourlay (including expenses $4)	19 00	
Miss Mabel Dunham (including expenses $4)	19 00	
Miss Blanche Weber	15 17	
Mrs. L. Lyle	5 00	
Griffith Taylor. Special Lecturer in Geography (paid also $4,000 in Faculty of Arts)	2.500 00	
Norman Davies, Lecturer in Methods of Agriculture	300 00	
Supply Teachers:		
S. B. McCready, 167 days	1,670 00	
W. T. Noble. 8 days	60 00	
G. S. Coward	37 50	
M. Sniderman. 5 days	37 50	
R. B. Hays, 2 days	15 00	
Miss D. A. Thomson. Librarian (paid also $60 for Extension Work)	2.400 00	
Miss D. Walter. Assistant Librarian	1.500 00	
Clerical Staff:		
Miss L. Swinarton. Secretary	2.050 00	
Clerks:		
Miss E. G. Seldon	1.550 00	
Miss G. Potter	1.450 00	
Miss J. M. Jeffrey	1,350 00	
Miss G. M. Harvey	1.200 00	
		$170,356 69
Retiring Allowances:		
Teachers' Insurance and Annuity Association. contribution of College for year ending 30 June, 1938. to fund for retiring	3.140 74	
Contribution of College for year ending 30 June. 1938. to University Pension Fund — Employees	1.038 00	
		$4.178 74
Charges on Investment:		
Accountant, Supreme Court of Ontario, proportion of annual payment on debenture issue of 1909 for interest and sinking fund		$10,000 00

Maintenance of Building:		
Fuel:		
Milnes Coal Co.	$3.272 83	
Gas. $275.60; electric current. $2,313.80; water. $223.21; telephone service. $331.85	3.144 46	
Caretaker's supplies:		
Superintendent's Dept.. material	546 63	
Cleaning ($5.569.37):		
Canadian Window Cleaning Co.	70 00	
Superintendent's Dept., labour	5.499 37	
Repairs and renewals ($3.752.52):		
Wm. Bartlett & Sons, shades and lantern screen	27 52	
Canadian Powers Regulator Co., repairs to temperature controls	17 29	
J. R. Clancy Co., lead blocks	63 91	
Engineering Equipment, enamel	90 00	
H. W. Petrie Co.. boiler repairs	17 27	
Provincial Treasurer, public hall license	10 00	
Robt. Simpson Co., supplying and laying linoleum	137 06	
Superintendent's Dept.. freight. $28.66; labour. $2,509.30; material. $851.51	3.389 47	
Grounds:		
Superintendent's Dept., labour, $825.14; material, $33.74	858 88	
Caretaker and Engineer. J. Harding, 12 mos. (and overtime, $192.25)	1.500 00	
Fireman. G. Thompson. 38 weeks	836 00	
Nightwatchmen ($1,449.28):		
H. McLeod. 12 mos.	1,260 00	
W. Gordon. 32 nights	110 44	
A. Smith. 22 nights	78 84	
	$20.929 97	
Less credits: Cleaning. etc., $415.05; fuel. light. etc., $203; telephone. $25.65	643 70	
		$20.286 27
Maintenance of Aura Lee Grounds:		
Fuel ($271.69):		
P. Burns & Co.	20 20	
Central Coal Co.	251 49	
Gas. $24.20; electric current. $47.99; water. $64.60; telephone service. $107.40	244 19	
Caretaker's supplies:		
Superintendent's Dept.. material	4 01	
Repairs and occasional labour ($873.63):		
George Gilliyn, erecting fence	84 00	
Superintendent's Dept.. labour. $624.23; material, $165.40	789 63	
Caretaker. G. Cruikshank. 12 mos. (with living quarters valued @ $200)	1.150 00	
	$2.543 52	
Less credits: Part cost of erecting fence. $42; sundries. $12.04	54 04	
		$2.489 48
Maintenance of Instruction:		
Use of City Schools:		
Board of Education. City of Toronto	$34.387 50	
Use of Rural School ($389):		
Honoraria as critic teachers — Agriculture:		
Principal R. H. King	50 00	
D. G. McBain	150 00	
W. A. Porter	150 00	
Dean Althouse, expenses of students, Specialists in Agriculture	39 00	
St. John's Ambulance Association, instruction in first aid to teachers-in-training	795 00	
Payment to Librarians who assist in practical work ($825):		
Miss E. L. Alexander	50 00	
Miss H. Armstrong	50 00	
Miss G. Boyle	50 00	
Miss M. Brady	50 00	
Mis M. Davidson	50 00	
Miss H. Dean	50 00	
Miss M. Forman	50 00	
Miss V. Hyland	25 00	

Miss J. McCally	50 00
Miss M. McGregor	50 00
Miss E. MacIntosh	50 00
Miss M. L. Newton	25 00
Miss E. St. John	50 00
Miss B. Steele	25 00
Miss R. Stock	50 00
Miss H. Stubbs	50 00
Miss J. Thomson	50 00
Miss H. G. B. Woolryche	50 00
Laboratory and library assistance and pianist's services ($198.70):	
Mrs. S. McKerrighan, 343 hours	112 20
Mrs. M. Graham, 86½ hours	86 50
Office supplies ($2,022.40):	
Miss Alice Elliott, clerical assistance, 7 weeks, 4 days	153 33
W. J. Gage & Co., paper	48 06
D. Gestetner Ltd., stencils	127 28
Grand & Toy, files, wardrobe and cupboard	116 20
Office Specialty Mfg. Co., guides, folders and drawers	108 50
Postage	320 00
Robbins & Townsend, typewriter inspection	24 60
Thomas & Corney Typewriters Ltd., typewriter, $129.60; less allowance on old machine, $10; repairs, $1.45	121 05
University Press, printing and stationery	816 27
Accounts under $10 (3)	4 75
Sundry disbursements by department	10 86
Superintendent's Dept., labour, $91.13; material, $80.37	171 50
Office supplies for Library School ($250.17):	
Bookshelf & Bindery	25 05
Grafton & Co., books	5 57
Grand & Toy, filing cabinet	36 70
Postage	21 00
Robbins & Townsend, typewriter inspection	27 40
Miss Hazel Williamson, clerical assistance, 3 weeks, 4 days	55 00
University Press, printing and stationery	69 45
Sundry disbursements by department	10 00
General supplies and apparatus for class room use ($8,011.04):	
Aikenhead Hardware Ltd., hardware	216 76
Thomas Allen, book	20 00
Art Metropole, set square, paper and colours	70 30
Artists' Supply Co., charcoal, easels, brushes and paper	79 07
Belle Ewart Ice & Fuel Ltd., ice	16 00
British Drug Houses, chemicals	56 49
Canadian General Electric Co., lamps, etc	13 50
Canadian Laboratory Supplies, glassware	87 59
Gus Cancilla, fruit and vegetables	167 32
Central Scientific Co., chemicals and glassware	330 18
Cinelab. Inc., silent print	27 91
City Dairy, milk	20 88
Clarke, Irwin Co., books	18 76
Copp, Clark Co., chalk	37 66
Wm. Dawson Subscription Service	55 00
J. M. Dent & Sons, books	24 40
Dictaphone Sales Corporation, adjusting machine	14 40
Dominion Glass Co., glassware	14 62
Doubleday, Doran & Co., books	16 72
T. Eaton Co., sewing machine, lathes, tools, linoleum, cloth, food supplies, etc	827 08
Easy Washing Machine Co., machine	75 00
W. J. Gage & Co., books	90 82
A. Gallenkamp & Co., magnifiers and test glasses	131 26
Grand & Toy, guides and paper	17 20
Guild of All Arts, loom and book	29 40
Heintzman & Co., piano rental and record albums	64 58
R. Laidlaw Co., lumber	59 83
Longmans, Green & Co., books	21 48
James Lumbers Co., matches	36 00
George J. McLeod Ltd., text books	16 45
Macmillan Co., books	45 02
Map Mounters Ltd., mounting charts	133 80

Matthews, McCutcheon & Co., carbons, films, objectives and books	806	25
Moyer's School Supplies Ltd., globe, map, books, etc.	223	05
Musson Book Co., books	11	41
Martinus Nijhoff's Bockhandel, charts	69	43
J. H. Payne, meat	17	57
Sir Isaac Pitman & Sons, books	18	04
Preston Woodworking Machinery Co., driver machine and chuck	498	69
Reyort Biological Supplies, specimen's, aquarium, etc.	71	06
Ryerson Press, books and protectors	40	39
Singer Sewing Machine Co., electric machine	91	91
J. B. Smith & Sons, lumber	34	78
Leslie Victor Smith, lettering certificates	65	20
S. A. Stinson & Son, lumber	129	43
G. Tamblyn Ltd., soap	18	40
"The Times," pamphlets	11	06
Underwood-Elliott-Fisher Ltd., typewriter, $133.65, less allowance on old machine, $12.50; typewriter rental, $308.75	429	90
Warwick Bros. & Rutter, paper	126	24
Whaley, Royce & Co., music, pitch pipe and batons, etc.	16	23
H. W. Wilson Co., book	13	30
P. B. Yates Machine Co., drill press	213	08
Payments to Examiners, extra-mural candidates:		
J. G. Althouse, $16.50; J. O. Carlisle, $13.12; G. A. Cornish, $33.75; B. C. Diltz, $25.50; W. C. Ferguson, $15; G. M. Jones, $24.37; J. A. Long, $10.12; W. J. Longheed, $15	153	36
University Press, printing and stationery	473	67
Accounts under $10 (45)	146	37
Sundry disbursements by department:		
Glassware, stationery, etc., $12.10; art supplies, $14.85; sundries, $6.13	33	08
Superintendent's Dept., freight, $19.77; labour, $723.30; material, $720.59	1,463	66
Supplies and equipment for Library School ($735.25):		
American Library Association, books and subscriptions	57	31
Association of American Library School, membership and publications	10	20
Clarke, Irwin & Co., books	13	04
Columbia University Bookstore, library service	12	64
Dodd, Mead & Co., books	11	20
Gordon & Gotch, subscription	95	69
Grafton & Co., text books	18	65
Dora Hood's Book Room, books	51	00
Lowe-Martin Co., cards	22	26
Macmillan Co., books	56	34
Postage	14	00
Ryerson Press, books	64	52
L. C. Smith & Corona Typewriters Ltd., typewriter rental	30	00
H. W. Wilson Co., books and subscriptions	60	08
University Press, printing and stationery	113	33
Accounts under $10 (26)	100	29
Superintendent's Dept., labour	4	70
Library books, periodicals, etc. ($864.40):		
Bookshelf Bindery, binding	22	72
Clarke, Irwin & Co., books	16	90
Grand & Toy, cabinets, etc.	212	00
Library of Congress, cards, etc.	25	69
Lowe-Martin Co., cards, etc.	45	54
Ryerson Press, books and labels	275	45
H. W. Wilson Co., books, subscriptions, etc.	58	29
University Press, printing and stationery	117	65
Accounts under $10 (22)	90	16
Physical training, including care of grounds, Field Day Sports, etc. ($407.29):		
Lackie Mfg. Co., cups and shields	133	50
University Arena, rental	100	00
Harold A. Wilson Co., balls, colours, badges and mat repairs	122	28
Accounts under $10 (2)	11	00
Superintendent's Dept., labour, $7.62; material, $32.89	40	51

Lunchroom equipment ($85.45):		
Cassidy's Ltd., crockery and tumblers	65 83	
Accounts under $10 (3)	19 62	
Graduate Courses and Summer Session ($2,370):		
Instructors:		
J. G. Althouse	350 00	
Miss W. G. Barnstead	80 00	
Miss B. Bassam	80 00	
M. A. Cameron	210 00	
F. E. Coombs	350 00	
J. A. Long	210 00	
A. Mowat	20 00	
C. E. Phillips	750 00	
Miss M. E. M. Poole	20 00	
C. R. Sanderson	100 00	
P. Sandiford	140 00	
W. S. Wallace	60 00	
Department of Educational Research:		
Assistant Professor. M. A. Cameron (paid also $210 for Extension Work)	3,000 00	
Research Assistants ($3,133.33):		
C. B. Conway, 12 mos.	1,800 00	
A. H. Smith, 10 mos. (resigned)	833 33	
M. Sniderman, 8 mos. (paid also $37.50 as supply teacher)	500 00	
Secretary, Miss K. M. Hobday, 12 mos.	1,700 00	
Clerical assistance ($2,100):		
Miss M. Graham, 12 mos.	1,100 00	
Miss M. Spalding, 12 mos.	1,000 00	
Office supplies, printing, etc. ($1,893.52):		
D. Gestetner Ltd., ink, stencils, etc	37 60	
Grand & Toy, cabinet, etc.	45 70	
Lowe-Martin Co., cards, paper, etc.	37 30	
Office Specialty Mfg. Co., shelving	161 00	
Postage	106 50	
Robbins & Townsend, typewriter inspection	21 00	
Wholesale Radio Co., radio parts	4 13	
University Press, printing and stationery	1,207 59	
Sundry disbursements by department:		
Stationery, books, etc., $10.66; sundries, $9.34	20 00	
Superintendent's Dept., freight, $141.93; labour, $60.90; material, $49.87	252 70	
Publication of "The School" and distribution in Training Schools:		
"The School," subscriptions	5,000 00	
Contingencies ($111.55):		
American Library Association, travelling expenses incurred in the inspection of the Library by the Board of Education for Librarianships	82 70	
Miss W. G. Barnstead, travelling expenses to Pittsburgh	28 85	
		$68,279 60
		$275,590 78

REPORT

RELATING TO THE REGISTRATION OF

BIRTHS, MARRIAGES AND DEATHS

IN THE

PROVINCE OF ONTARIO

FOR THE

YEAR ENDING 31st DECEMBER

1938

(BEING THE SIXTY-NINTH ANNUAL REPORT)

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 13, 1939

ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1940

SIR:

I have the honour to submit for your approval the Sixty-Ninth Annual Report made in conformity with and under the provisions of the Act respecting the Registration of Births, Marriages and Deaths in the Province of Ontario, for the year ending December 31st, 1938.

I have the honour to be, Sir,

Your obedient servant,

F. V. JOHNS,
Deputy Registrar-General.

TO THE HON. H. C. NIXON,
Registrar-General of Ontario.

TO HIS HONOUR THE LIEUTENANT-GOVERNOR OF THE PROVINCE OF ONTARIO

MAY IT PLEASE YOUR HONOUR:

I herewith beg to present for your consideration the Sixty-Ninth Annual Report of the Registrar-General, relating to the Registration of Births, Marriages and Deaths in the Province of Ontario during the year 1938.

Respectfully submitted,

H. C. NIXON,
Registrar-General of Ontario.

CONTENTS

LIST OF VITAL STATISTICS TABLES FOR 1938 FOR PROVINCE OF ONTARIO

General Summary Tables

Page

Table 1 General summary of births, deaths and marriages in the Province of Ontario by county municipalities (including cities, towns and villages), 1938 1

Table 2 Number of births, deaths and marriages, and the ratio per 1,000 of population in each county (excluding cities, towns and villages of 5,000 population and over), Ontario, 1938 2

Table 3 General summary of births, deaths and marriages in the Province of Ontario for cities, towns and villages of 10,000 population and over, 1938 3

Table 4 General summary of births, deaths and marriages for towns and villages of 5,000 to 10,000 population in the Province of Ontario, 1938 3

Table 5 General summary of births, deaths and marriages in the Province of Ontario, for towns and villages of 1,000 population and under 5,000, 1938 4

Births

Table 6 Births (exclusive of still-births) by months, classified as rural and urban for Ontario, by counties, 1938 6

Table 7 Total births (exclusive of still-births) and births in public institutions, showing the number of mothers non-resident in the Province of Ontario, 1938 10

Table 8 Births (exclusive of still-births) to resident and non-resident mothers and births) in institutions in the cities, towns and villages of Ontario, of 5,000 population and over, 1938 11

Table 9 Births (exclusive of still-births) classified as legitimate or illegitimate, and as single or plural by sex, for cities, towns and villages of 5,000 and over, 1938 12

Table 10 Births (exclusive of still-births) and classified according to ages of parents, Ontario, 1938 14

Table 11 Births (exclusive of still-births) classified according to racial origin of parents, Ontario, 1938 16

Table 12 Legitimate births (exclusive of still-births) classified according to age and racial origin of mothers, Ontario, 1938 18

Table 13 Births (exclusive of still-births) classified according to birthplace of parents, Ontario, 1938 20

Table 14 Legitimate births (exclusive of still-births) classified according to age and birthplace of mother, Ontario, 1938 22

Table 15 Plural births classified to show number of children born alive and still-born by sex in the Province of Ontario, 1938 24

Marriages

Table 16 Marriages in Ontario by months, 1938 24

Table 17 Marriages—Conjugal condition of contracting parties, Ontario, 1938 24

Table 18 Marriages reported in rural and urban parts of counties, Ontario, 1938 25

Table 19 Marriages—Ages of bridegrooms and brides, Ontario, 1938 26

Table 20 Marriages—Denominations of contracting parties, Ontario, 1938 27

Table 21 Marriages—Birthplace of bridegrooms and brides, Ontario, 1938 28

Table 22 Marriages—Literacy of bridegrooms and brides, in Ontario, classified by birthplace, 1938 30

Infant Mortality

Table 23 Deaths of children under one year (exclusive of still-births) in Ontario, by months, classified as rural and urban by counties, 1938 31

Table 24 Total deaths (exclusive of still-births) and deaths in institutions, of children under one year of age showing the number non-resident in the Province of Ontario, 1938 35

		Page
Table 25	Total deaths (exclusive of still-births) and deaths in institutions, of children under one year of age, classified according to residence of decedents in cities, towns and villages of Ontario of 5,000 population and over, 1938...	36
Table 26	Deaths of children under one year (exclusive of still-births), by age at death, Ontario 1938....	38
Table 27	Deaths of children under one year of age (exclusive of still-births) classified according to racial origin of decedents, Ontario, 1938....	39
Table 28	Deaths of children under one year of age (exclusive of still-births) classified according to birthplace of parents, Ontario, 1938....	40
Table 29	Deaths of children (exclusive of still-births) from certain specified causes in first year of life by sex and calendar month of death, Ontario, 1938.	42
Table 30	Deaths of children (exclusive of still-births) from certain specified causes in first year of life by sex and ages at death, Ontario, 1938....	44
Table 31	Total deaths (exclusive of still-births) and deaths in institutions, showing the number non-resident in the Province of Ontario, 1938....	45
Table 32	Total deaths (exclusive of still-births) and deaths in institutions, classified according to residence of decedents, in cities, towns and villages of Ontario of 5,000 population and over, 1938....	46
Table 33	Deaths (exclusive of still-births) by single years of age and by age groups, Ontario, 1938....	48
Table 34	Deaths (exclusive of still-births) classified by racial origin of decedents in Ontario, 1938....	49
Table 35	Deaths (exclusive of still-births) classified according to birthplace of decedents for the Province of Ontario and for cities, towns and villages of 10,000 population and over, 1938....	50
Table 36	Deaths (exclusive of still-births) classified according to birthplace of parents of decedents for Ontario, 1938....	54
Table 37	Causes of death by sex and age, Ontario, 1938....	56
Table 38	Causes of death for each sex by conjugal condition, nativity and month of death, Ontario, 1938....	76
Table 39	Causes of death by counties (exclusive of cities, towns and villages of 5,000 and over), Ontario, 1938....	104
Table 40	Causes of death for towns and villages of 5,000 to 10,000 population and over, Ontario, 1938....	122
Table 41	Causes of death for cities, towns and villages of 10,000 population and over, Ontario, 1938....	134
Table 42	Causes of death by counties (including cities, towns and villages of 5,000 and over), Ontario, 1938....	148
Table 43	Deaths from certain causes in towns and villages of 1,000 population and under 5,000, Ontario, 1938....	168

REPORT UPON

Births, Marriages and Deaths

For the Year 1938

BEING THE SIXTY-NINTH ANNUAL REPORT OF THE REGISTRAR-GENERAL

ESTIMATED POPULATION, 1938

	Males	Females	Totals
Totals	**1,901,320**	**1,829,680**	**3,731,000**
Under 1	32,322	31,288	63,610
1	32,513	31,470	63,983
2	34,604	33,666	68,270
3	34,984	34,398	69,382
4	35,365	33,849	69,214
Totals under 5 years	**169,788**	**164,671**	**334,459**
5– 9	183,477	178,577	362,054
10–14	175,682	170,343	346,025
15–19	177,583	169,062	346,645
20–24	160,471	156,072	316,543
25–29	147,732	139,970	287,702
30–34	139,937	134,116	274,053
35–39	136,705	131,554	268,259
40–44	128,340	120,210	248,550
45–49	117,501	106,670	224,171
50–54	99,440	93,679	193,119
55–59	76,433	72,638	149,071
60–64	62,743	62,210	124,953
65–69	50,195	50,500	100,695
70–74	38,407	39,338	77,745
75–79	21,485	22,139	43,624
80–84	10,077	11,344	21,421
85–89	3,613	4,757	8,370
90 and over	1,141	1,464	2,605
Not stated	570	366	936

The population is distributed as follows:—

Cities, Towns and Villages of 10,000 population and over 1,661,188. Towns and Villages of 5,000 to 10,000 population 192,238. Rural (including all other municipalities) 1,877,574.

BIRTHS

There were registered 65,564 living births during the year 1938, being a rate of 17.6 per 1,000 of population. This being a numerical increase of 3,919.

BIRTHS

There were 33,605 boys, or 51.2% of the total number; and 31,959 girls, or 48.7% which represents 95.1 male to 100 female births.

NUMBER OF BIRTHS AND RATE PER 1,000 OF POPULATION

	1938		1937	
	Number	Ratio	Number	Ratio
Province	65,564	17.6	61,645	16.6
Cities	35,194	21.1	32,430	19.6
Towns	4,542	23.6	4,164	22.5
Rural	25,828	13.7	25,051	13.3

NUMBER OF BIRTHS AND RATE FOR 10 YEARS

Year	Number	Ratio	Year	Number	Ratio
1929	68,458	20.5	1934	62,234	17.5
1930	71,263	21.0	1935	63,069	17.5
1931	69,209	20.2	1936	62,451	16.9
1932	66,842	19.2	1937	61,645	16.6
1933	63,646	18.1	1938	65,564	17.6

STILL BIRTHS

Year	Registered as Births	Ratio per 1,000 Total Births	Year	Registered as Births	Ratio per 1,000 Total Births
1919	2,091	32.2	1929	2,730	38.8
1920	2,495	33.3	1930	2,713	36.6
1921	3,234	41.7	1931	2,652	36.9
1922	3,015	40.5	1932	2,377	34.3
1923	3,028	41.4	1933	2,161	32.7
1924	2,594	34.9	1934	2,091	32.5
1925	2,780	38.1	1935	2,140	32.7
1926	2,812	39.9	1936	2,034	31.5
1927	2,758	39.5	1937	1,988	31.2
1928	2,793	39.2	1938	2,015	29.8

BIRTHS

AGE OF MOTHER

Year	12	13	14	15	16	17	18	19	20	21	22	23	24	25	12–25	Others
1929	2	3	29	103	321	766	1586	2270	2890	3283	3749	3806	3974	3897	26677	41781
1930	..	5	33	101	349	835	1636	2498	3042	3441	4004	4129	4176	4010	28262	43001
1931	2	6	24	104	361	847	1720	2457	2937	3401	3820	3984	4118	4017	27800	41409
1932	..	3	12	106	308	783	1647	2400	2946	3422	3596	3787	4058	3850	26909	39933
1933	..	5	24	97	318	750	1661	2334	2843	3220	3421	3631	3765	3791	25350	38296
1934	..	5	16	79	288	709	1476	2276	2783	3221	3471	3484	3688	3507	25003	37231
1935	..	3	17	103	312	710	1497	2270	2842	3366	3499	3738	3732	3757	25846	37223
1936	..	5	25	104	294	691	1497	2269	2946	3391	3629	3682	3745	3666	25944	36507
1937	..	5	14	97	306	781	1521	2258	2779	3308	3725	3791	3756	3661	26002	35643
1938	1	9	19	87	342	856	1796	2395	2963	3511	3866	4143	4137	4092	28217	37347
Total	5	49	213	981	3199	7728	16037	23327	28971	33564	36780	38175	39149	38248	265020	388371

43.0% of living births were of mothers under 25 years of age and 56.9% of mothers 25 years and over.

ILLEGITIMATE BIRTHS

Rate per 1,000 living Births

1907	14.8	1915	21.9	1923	22.5	1931	40.0
1908	14.9	1916	20.9	1924	24.0	1932	42.3
1909	13.9	1917	19.5	1925	26.8	1933	43.8
1910	19.3	1918	21.0	1926	26.9	1934	40.2
1911	19.4	1919	19.8	1927	29.0	1935	41.8
1912	21.3	1920	20.5	1928	31.7	1936	44.6
1913	21.6	1921	21.5	1929	34.6	1937	45.3
1914	22.1	1922	21.2	1930	37.2	1938	46.6

ILLEGITIMATE BIRTHS

By Ages of Mothers

Year	12	13	14	15	16	17	18	19	20	21	22	23	24	25	12–25	Over 25	Total	Rate
1929..	2	3	25	60	125	193	256	268	227	202	164	138	114	83	1860	516	2376	34.6
1930..	..	5	27	72	146	198	249	294	293	200	207	143	145	97	2076	575	2651	37.2
1931..	2	6	21	71	152	235	292	313	233	229	202	171	137	90	2154	619	2773	40.0
1932..	..	3	10	53	124	212	310	320	286	257	172	165	151	103	2166	668	2834	42.5
1933..	..	4	17	52	144	209	314	331	268	256	200	144	128	97	2164	622	2786	43.8
1934..	..	5	12	38	96	190	226	272	251	233	198	139	123	104	1887	613	2500	40.2
1935..	..	3	16	49	123	186	248	278	259	265	187	184	139	103	2040	602	2642	41.8
1936..	..	5	24	60	107	179	261	298	271	266	225	179	153	121	2149	639	2788	44.6
1937..	..	5	12	58	119	199	244	261	239	260	215	173	142	126	2053	743	2796	45.3
1938..	1	8	13	51	117	213	286	304	275	281	226	219	171	126	2291	770	3061	46.6
Total.	5	47	177	564	1253	2014	2680	2939	2602	2449	1996	1655	1403	1050	20840	6367	27207	.....

In the case of illegitimate births 74.8% of the mothers were under 25 years of age and of the total 3,061 such births, 1,583 or 51.7% were boys and 1,478 or 48.2% girls.

MULTIPLE BIRTHS

There were 682 cases of twin births. Of these 703 were males and 661 females.

There were 6 cases of triplets, 6 boys and 12 girls.

Table 15 will give a detailed explanation of the multiple births.

CONFINEMENTS

Multiple births	688
Single living births	64,269
Single still births	1,928
	66,885

Other tables dealing with births will be found from Table No. 1 to Table No. 15.

MARRIAGES

NUMBER AND RATE PER 1,000 OF POPULATION

	1938		1937	
	Number	Ratio	Number	Ratio
Province	30,080	8.1	29,893	8.1
Cities	17,733	10.6	17,796	10.8
Towns	1,911	9.9	1,842	9.9
Rural	10,436	5.5	10,255	5.4

NUMBER AND RATIO PER 1000 POPULATION FOR 10 YEARS

Year	Marriages	Ratio	Year	Marriages	Ratio
1929	27,605	8.3	1934	25,874	7.3
1930	25,605	7.6	1935	26,843	7.5
1931	23,771	6.9	1936	27,734	7.5
1932	22,224	6.4	1937	29,893	8.1
1933	22,587	6.4	1938	30,080	8.1

The tables dealing with marriages from various angles are numbered 16 to 22.

Divorces—Years at Married Life

Years Married	1934	1935	1936	1937	1938	Years Married	1934	1935	1936	1937	1938
1	3	6	4	2	4	27	5	4	6	3	7
2	7	8	15	9	14	28	1	5	3	2	2
3	9	6	15	16	20	29	1	2	3	3	4
4	13	16	33	19	27	30	1	3	2	3	5
5	16	33	30	31	38	31	..	2	3	1	4
6	23	42	35	30	33	32	1	2	1	2	3
7	21	38	30	47	56	33	3	1	..	1	5
8	28	33	31	53	63	34	..	..	..	3	2
9	23	24	36	45	54	35	..	..	1	1	2
10	34	23	34	45	57	36	..	..	1	1	1
11	19	37	27	30	42	37	..	1	1	..	1
12	16	26	26	32	46	38	..	1	..	1	..
13	12	26	20	30	49	39	..	..	..	..	1
14	21	22	22	30	39	40	..	..	..	..	1
15	16	19	29	21	29	41	..	1	..	1	..
16	14	21	21	18	35	42	..	..	..	1	..
17	13	8	21	18	37	43	..	..	..	..	1
18	14	10	9	26	24	44	..	..	..	..	..
19	11	11	11	11	30	45	..	..	..	..	..
20	5	14	9	18	19	46	..	..	..	1	..
21	11	9	4	9	13						
22	7	4	10	11	10						
23	4	6	8	4	15	Total	365	491	514	607	824
24	4	7	2	9	10	Rate per 1,000 marriages	14.1	18.3	18·5	20.3	27.3
25	4	3	7	14	15						
26	4	6	4	6	6						

824 divorce returns were filed with the Registrar-General in 1938.

294 granted to men and 530 to women.

The above figures are compiled from information sent to the Registrar-General by the Registrars of the Supreme Courts of Ontario.

DEATHS

	1938		1937	
	Number	Ratio	Number	Ratio
Province	36,890	9.9	38,475	10.4
Cities	18,783	11.3	19,298	11.7
Towns	2,393	12.4	2,419	13.1
Rural	15,714	8.3	16,758	8.9

DEATHS AND RATE PER 1,000 OF POPULATION FOR 10 YEARS

Year	Deaths	Ratio	Year	Deaths	Ratio
1929	38.123	11.4	1934	35,119	9.9
1930	37,313	11.0	1935	36,317	10.1
1931	35,705	10.4	1936	37,571	10.2
1932	36,469	10.5	1937	38,475	10.4
1933	35,301	10.0	1938	36,890	9.9

TEN HIGHEST CAUSES OF DEATH IN EACH YEAR PER 100,000 OF POPULATION

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Organic heart disease	5,891	5,634	5,818	6,679	6,619	7,066	7,053	7,053	7,226	7,354
	176.7	166.1	169.2	192.1	187.6	198.3	196.1	191.1	194.7	197.0
Pneumonia (all forms)	2,402	2,279	2,305	2,388	2,175	2,145	2,417	2,520	2,595	2,495
	78.1	67.3	67.1	68.7	61.7	60.2	67.2	68.2	69.9	66.8
Influenza	2,394	854	1,084	1,544	1,240	580	958	722	1659	618
	73.1	25.7	31.6	44.4	35.1	16.2	26.6	19.5	44.6	16.5
Tuberculosis	1,703	1,791	1,728	1,604	1,465	1,337	1,303	1,327	1,315	1,237
	51.1	52.8	50.4	46.1	41.4	37.5	36.2	35.9	35.4	33.1
Cancer	3,402	3,635	3,726	3,825	4,044	4,034	4,214	4,441	4,547	4,472
	102.1	107.2	108.6	110.0	114.7	113.2	117.2	120.2	122.5	119.8
Violent or accidental deaths	2,706	2,774	*2,819	2,571	2,278	2,535	2,672	3,294	2,851	2,754
	81.2	81.8	82.1	73.9	64.6	71.1	74.2	89.4	76.8	73.8
Cerebral hemorrhage, cerebral embolism and thrombosis	1,319	1,219	1,268	1,259	1,262	1,229	1,025	839	770	790
	39.6	36.0	37.0	36.2	35.8	34.5	28.5	22.7	20.7	21.1
Diseases of the arteries	3,270	3,628	3,165	3,559	3,574	3,793	4,109	4,621	4,633	4,745
	98.2	107.1	92.2	102.4	101.4	106.4	114.2	125.2	124.8	127.1
Infantile diarrhoea	740	943	821	483	571	509	310	362	399	312
	22.2	27.8	23.9	13.9	16.2	14.3	8.6	9.8	10.7	8.3
Nephritis	1,760	1,759	1,341	1,810	1,754	1,700	1,848	1,892	1,946	1,900
	52.8	51.9	39.0	52.1	49.7	47.7	51.4	51.2	52.4	50.9
Diabetes	.....	.....	.....	.....	.....	.....	524	566	579	584
							14.5	15.3	15.6	15.6

*Revised.

COMMUNICABLE DISEASES

Rates per 100,000 of population

	1929		1930		1931		1932		1933		1934		1935		1936		1937		1938	
Typhoid fever	97	2.9	78	2.3	99	2.9	58	1.6	51	1.5	49	1.4	39	1.0	40	1.0	35	0.9	39	1.0
Smallpox	1	0.0	1	0.0	1	0.0			1	0.0	...	....	...	...	...	...	..	...	..	...
Measles	143	4.3	95	2.8	29	0.8	118	3.3	37	1.0	5	0.1	89	2.5	84	2.3	30	0.8	31	0.8
Scarlet fever	74	2.2	111	3.3	54	1.5	40	1.1	43	1.2	58	1.6	57	1.6	79	2.1	50	1.3	49	1.3
Whooping cough	194	5.9	180	5.4	174	5.0	132	3.7	119	3.3	178	4.7	114	3.1	112	3.0	104	2.8	88	2.3
Diphtheria	262	8.0	202	6.1	157	4.5	89	2.5	40	1.1	23	0.6	33	0.9	31	0.9	30	0.8	11	0.2
Influenza	2394	73.1	854	25.7	1084	31.6	1544	44.4	1240	35.1	580	16.2	958	26.6	722	19.5	1659	44.6	618	16.5
Poliomyelitis	46	1.4	92	2.7	28	0.8	24	0.6	15	0.4	39	1.9	14	0.3	23	0.6	119	3.2	25	0.6

TUBERCULOSIS

The following Table showing deaths and rates over a fifty year period is shown for comparison and indicates the effectiveness of effort to wipe out this disease.

Year	Number	Rate	Year	Number	Rate
1888	2,551	124.2	1918	2,517	89.6
1898	3,291	152.2	1928	1,832	52.9
1908	2,511	103.7	1938	1,237	33.1

DEATHS IN ONTARIO FROM TUBERCULOSIS BY AGES, 1929-1938

Year	Total	Ratio per 100,000	Under 5 years					5-9	10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	80 and over	Not stated	Total deaths from all causes.
			0–1	1	2	3	4												
1929	1,703	51.1	31	37	15	12	9	42	46	164	415	306	261	157	131	66	9	2	38,123
1930	1,791	52.8	39	30	10	16	7	55	55	159	463	312	238	182	140	72	13	...	37,313
1931	1,728	50.4	25	33	11	16	5	33	46	132	458	337	228	178	134	75	15	2	35,705
1932	1,604	46.1	26	22	14	8	6	32	32	130	387	290	218	212	132	79	16	...	36,469
1933	1,465	41.5	23	28	15	10	10	30	32	101	375	259	223	168	111	68	11	1	35,301
1934	1,337	37.5	14	13	8	14	5	29	23	93	307	260	202	149	135	73	11	1	35,119
1935	1,303	36.2	15	17	12	13	5	25	36	88	264	230	205	186	114	70	12	1	36,317
1936	1,327	35.9	12	24	14	11	5	37	28	93	285	241	202	168	129	65	13	...	37,571
1937	1,315	35.4	19	12	17	6	4	27	28	72	299	230	201	177	132	74	16	1	38,475
1938	1,237	33.1	17	16	8	10	8	24	29	76	246	225	199	160	131	75	11	2	36,890

TUBERCULOSIS

NUMBER OF DEATHS IN EACH AGE GROUP AND RATE PER 100,000 POPULATION

	1933				1934				1935				1936				1937				1938			
	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate
Under 1 yr.	13	42.5	10	34.0	6	19.4	8	26.7	11	35.3	4	13.3	11	34.4	1	3.2	10	31.1	9	28 9	10	30.9	7	22.3
1 "	18	58.6	10	33.4	6	19.3	7	23.2	10	31.9	7	22.9	17	53.0	7	22.3	6	18.5	6	19.1	7	21.5	9	27.7
2 yrs.	9	27.5	6	18.8	5	15.1	3	9.3	2	5.9	10	30.8	7	20.4	7	21.0	7	20.2	10	29.8	4	11.5	4	11.8
3 "	7	21.1	3	9.2	7	20.9	7	21.3	8	23.7	5	15.0	10	28.8	1	2.9	3	8.6	3	8.7	3	8.5	7	20.3
4 "	8	23.9	2	6.2	4	11.8	1	3.0	3	8.8	2	6.1	3	8.5	2	5.9	1	2.8	3	8.9	4	11.3	4	11.8
5 to 9 "	16	9.2	14	8.3	14	7.9	15	8.7	16	9.0	19	11.0	24	13.3	13	7.3	13	3.1	14	7.8	9	4.9	15	8.4
10 " 14 "	13	7.8	19	11.8	10	5.9	13	7.9	20	11.8	16	9.7	13	7.4	15	8.9	11	6.2	17	10.0	11	6.2	18	10.5
15 " 19 "	36	21.4	65	40.7	27	15.9	66	40.8	35	30.4	53	32.5	37	21.0	56	33.3	29	16.4	43	25.5	28	15.7	48	28.4
20 " 24 "	73	48.1	119	80.6	62	40.4	85	57.0	46	29.7	87	57.7	60	37.8	86	55.7	61	38.2	101	65.0	50	31.1	72	46.1
25 " 29 "	70	50.1	113	85.5	79	56.0	81	60.6	53	37.3	78	57.8	57	39.0	82	59.2	56	38.1	81	58.2	54	36.5	70	50.0
30 " 34 "	70	52.9	62	48.8	67	50.1	74	57.8	61	45.2	62	47.9	60	43.3	60	45.2	62	44.5	49	36.7	67	47.8	56	41.7
35 " 39 "	172	55.7	55	44.2	78	59.7	41	32.6	60	45.5	47	37.0	76	56.2	45	34.6	71	52.2	48	36.6	69	50.4	33	25.0
40 " 44 "	60	49.5	46	40.5	64	52.2	36	31.3	85	68.7	43	37.1	64	50.4	35	29.4	64	50.1	34	28.4	54	42.0	38	31.6
45 " 49 "	67	60.4	50	49.6	63	56.1	39	31.4	50	44.1	27	26.2	64	55.1	39	36.9	79	67.6	24	22.6	69	58.7	38	35.6
50 " 59 "	09	65.6	59	37.5	101	60.1	48	28.5	126	74.3	60	37.4	123	70.6	45	27.3	136	77.7	41	24.7	108	61.4	52	31.2
60 " 69 "	62	58.1	49	46.0	85	78.8	50	46.3	75	68.9	39	35.8	80	71.6	49	43.9	87	77.4	45	40.1	82	72.6	49	43.4
70 " 79 "	32	56.5	36	61.7	39	68.1	34	59.4	40	69.3	30	50.4	38	64.1	27	44.4	39	65.4	35	57.2	42	70.2	33	53.6
80 yrs. and over...	6	42.8	5	30.0	2	14.1	9	63.5	6	41.9	6	35.3	5	32.7	8	45.2	5	33.8	11	62.9	5	33.7	6	34.1
Not stated.	...	....	1	....	1	.....	...	....	1	.....	...	....	...	.....	...	....	1	....	...	.....	2	.....	...	.....
Total......	741	41.2	724	41.8	720	39.6	617	35.3	708	38.6	595	33.7	749	39.8	578	31.9	741	39.1	574	31.5	678	35.6	559	30.5

TUBERCULOSIS

Death Rates from T.B. by Age Groups for 10 Years, 1929-1938

(Rate per 100,000 Population)

	Under 1 Year		1 Year		2 Years		3 Years		4 Years		5–9		10–14		15–19		20–24	
Year	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1929...	84.4	36.3	70.2	39.3	21.2	19.0	18.3	13.6	10.6	13.6	12.5	10.6	9.0	17.6	39.7	58.0	58.9	65.6
1930...	71.1	33.1	43.3	45.0	10.4	16.3	13.1	29.4	2.6	16.2	15.0	14.9	11.2	20.2	22.8	65.0	75.2	83.2
1931...	57.2	31.4	67.1	44.7	12.6	22.6	21.7	28.4	6.0	9.6	7.6	12.1	11.6	17.1	30.0	53.3	56.9	102.4
1932...	46.5	41.4	46.2	27.1	21.7	22.3	12.2	12.4	12.2	6.3	5.8	13.2	7.3	12.6	30.8	50.1	51.5	77.8
1933...	42.5	34.0	58.6	33.4	27.5	18.8	21.1	9.2	23.9	6.2	9.2	8.3	7.8	11.8	21.4	40.7	48.1	80.6
1934...	19.4	26.7	19.3	23.2	15.1	9.3	20.9	21.3	11.8	3.0	7.9	8.7	5.9	7.9	15.9	40.8	40.4	57.0
1935...	35.3	13.3	31.9	22.9	5.9	30.8	23.7	15.0	8.8	6.1	9.0	11.0	11.8	9.7	30.4	32.5	29.7	57.7
1936...	34.4	3.2	53.0	22.3	20.4	21.0	28.8	2.9	8.5	5.9	13.3	7.3	7.4	8.9	21.0	33.3	37.8	55.7
1937...	31.1	28.9	18.5	19.1	20.2	29.8	8.6	8.7	2.8	8.9	7.1	7.8	6.2	10.0	16.4	25.5	38.2	65.0
1938...	30.9	22.3	21.5	27.7	11.5	11.8	8.5	20.3	11.3	11.8	4.9	8.4	6.2	10.5	15.7	28.4	31.1	46.1

	25–29		30–34		35–39		40–44		45–49		50–59		60–69		70–79		80 and Over	
Year	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1929...	75.4	82.6	73.2	69.0	82.3	51.9	97.3	54.3	92.6	65.3	87.9	42.3	95.5	70.5	83.2	89.0	32.1	58.6
1930...	71.6	78.0	62.3	80.0	75.7	61.1	80.1	62.4	72.8	63.4	95.7	53.8	120.9	52.6	107.4	76.9	47.6	57.2
1931...	82.4	89.2	78.4	69.7	54.0	67.8	63.6	41.6	71.2	30.5	74.7	37.3	69.2	59.8	83.5	51.3	43.9	55.7
1932...	68.3	79.0	71.3	60.8	62.8	33.4	65.3	42.8	50.2	37.3	81.1	51.1	71.2	54.3	69.9	69.5	36.6	65.9
1933...	50.1	85.5	52.9	48.8	55.7	44.2	49.5	40.5	60.4	49.6	65.6	37.5	58.1	46.0	56.5	61.7	65.9	30.0
1934...	56.0	60.6	50.1	57.8	59.7	32.6	52.2	31.3	56.1	31.4	60.1	28.5	78.8	46.3	68.1	59.4	14.1	63.5
1935...	37.3	57.8	45.2	47.9	45.5	37.0	68.7	37.1	44.1	26.2	74.3	37.4	68.9	35.8	69.3	50.4	41.9	35.3
1936...	39.0	59.2	43.3	45.2	56.2	34.6	50.4	29.4	55.1	36.9	70.6	27.3	71.6	43.9	64.1	44.4	32.7	45.2
1937...	38.1	58.2	44.5	36.7	52.2	36.6	50.1	28.4	67.6	22.6	77.7	24.7	77.4	40.1	65.4	57.2	33.8	62.9
1938...	36.5	50.0	47.8	41.7	50.4	25.0	42.0	31.6	58.7	35.6	61.4	31.2	72.6	43.4	70.2	53.6	33.7	34.1

DEATHS FROM TUBERCULOSIS, 1938

Counties (Exclusive of Cities, Towns and Villages of 5,000 and over.)	Place of Occurrence		Place of Residence	
	Number	Rate	Number	Rate
Addington	2	26.8	4	53.6
Algoma	13	49.0	17	64.1
Brant	25	93.8	15	56.2
Bruce	9	19.6	13	28.3
Carleton	3	8.9	7	20.8
Cochrane	28	73.6	36	94.6
Dufferin	..	....	1	6.2
Dundas	1	5.7	1	5.7
Durham	8	28.5	10	35.7
Elgin	4	12.9	7	22.5
Essex	..	....	10	16.9
Frontenac	4	15.8	4	15.8
Glengarry	24	119.1	19	94.3
Grenville	7	39.1	8	44.6
Grey	7	14.2	8	16.2
Haldimand	6	25.9	10	43.2
Haliburton	..	....	2	31.5
Halton	3	10.4	11	38.3
Hastings	3	7.0	7	16.4
Huron	8	16.2	10	20.3
Kenora, including Patricia District	19	95.6	29	145.9
Kent	3	5.8	8	15.4
Lambton	7	17.0	9	21.9
Lanark	6	21.2	6	21.2
Leeds	2	7.0	5	17.5
Lennox	3	22.9	4	30.6
Lincoln	17	54.3	5	15.9
Manitoulin	13	112.4	15	129.7
Middlesex	68	129.3	10	19.0
Muskoka	60	263.7	6	26.3
Nipissing	7	23.8	14	47.6
Norfolk	2	7.1	6	21.5
Northumberland	4	14.0	9	31.6
Ontario	6	17.3	10	28.8
Oxford	4	11.3	6	17.0
Parry Sound	3	10.7	4	14.2
Peel	2	8.0	6	24.0
Perth	2	5.1	6	15.4
Peterborough	3	12.7	6	25.4
Prescott	11	52.8	14	67.2
Prince Edward	1	5.5	2	11.1
Rainy River	3	22.8	8	60.8
Renfrew	6	14.6	17	41.5
Russell	6	29.7	9	44.6
Simcoe	13	21.0	16	25.8
Stormont	5	22.6	10	45.3
Sudbury	15	40.5	27	73.0
Thunder Bay	8	32.8	20	82.0
Temiskaming	21	114.5	8	43.6
Victoria	1	4.8	4	19.3
Waterloo	21	59.5	7	19.8
Welland	2	4.7	9	21.1
Wellington	5	12.0	8	19.3
Wentworth	118	229.3	8	15.5
York	120	48.8	64	26.0
Outside of Ontario	..	....	5	....

Cities, Towns and Villages of 5,000 and over.	Place of Occurrence		Place of Residence	
	Number	Rate	Number	Rate
Barrie	1	12.0	2	24.0
Belleville	4	27.1	6	40 6
Brampton	2	3.5	...	....
Brantford	3	9.5	7	22.1
Brockville	2	20.0	2	20.0
Chatham	4	24.1	6	36.1
Cobourg	..	....	1	17.0
Collingwood	..	....	1	18.7
Cornwall	10	74.7	11	82.2
Eastview	2	27.5	3	41.3
Forest Hill	1	9.0	1	9.0
Fort Erie	1	16.9	2	33.9
Fort Francis	2	33.9	2	33.9
Fort William	29	115.7	10	39.9
Galt	..	....	5	35.1
Guelph	2	9.2	4	18.4
Hamilton	14	9.0	55	35.4
Hawkesbury	6	99.1	6	99.1
Ingersoll	..	....	2	38.5
Kenora	9	106.1	6	70 7
Kingston	17	69.8	10	41.1
Kirkland Lake	2	9.1	6	27.3
Kitchener	5	15.0	7	21.0
Leamington	1	17.7	2	35.5
Lindsay	5	68.5	7	95.9
London	18	23.1	23	30.2
Midland	1	14.9	1	14.9
Mimico	...	....	1	14.2
New Toronto	19	219.2	1	11.5
Niagara Falls	2	10.5	4	21.1
North Bay	1	6.4	3	19.4
Orillia	..	....	1	11.2
Oshawa	4	16.1	6	24.2
Ottawa	86	59.6	73	50.6
Owen Sound	2	14.8	6	44.6
Pembroke	8	76.8	8	76.8
Peterborough	2	8.2	3	12.4
Port Arthur	7	32.6	5	23.3
Port Colborne	2	30.7	2	30.7
Preston	1	15.5	3	46.7
Renfrew	2	37.2	2	37.2
Riverside	..	....	..	....
St. Catharines	3	10.8	4	14.4
St. Thomas	2	12.2	4	24.4
Sarnia	4	21.9	9	49.2
Sault Ste. Marie	10	41.9	14	58 7
Simcoe	1	16.5	1	16.5
Smith's Falls	5	65.5	6	78.6
Stratford	2	11.6	4	23 3
Sudbury	6	22.6	12	45 3
Swansea	..	....	..	....
Thorold	..	....	2	39.9
Timmins	7	27.9	13	51.8
Toronto	143	22.0	225	34.7
Trenton	..	....	1	14.6
Waterloo	..	....	..	....
Welland	1	9.0	3	27.1
Weston	..	....	..	....
Whitby	3	54.1	2	36.0
Windsor	30	28.8	24	23.0
Woodstock	1	8.7	1	8.7
Outside of Ontario	..	....	6	....

CANCER

The following Table shows how deaths and the death rate from Cancer have increased in the last half century:

1888	635— 30 9
1898	975— 45 1
1908	1,597— 65 0
1918	2,103— 74 9
1928	3,441—106 5
1938	4,472—119 8

CANCER

Number of Deaths and Rate per 100,000 Population by Age Groups

	1934				1935				1936				1937				1938			
	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate
Jnder 5 yrs.	9	5.5	5	3.1	4	2.4	5	3.0	10	5.9	6	3.6	11	6.5	6	3.6	5	2.9	6	3.6
5 to 9 yrs.	3	1.7	3	1.7	6	3.4	4	2.3	2	1.1	2	1.1	4	2.1	4	2.2	4	1.0	5	2.8
0 " 14 "	3	1.7	3	1.8	3	1.7	6	3.6	5	2.8	1	0.5	5	2.8	3	1.7	6	3.4	7	4.1
5 " 19 "	4	2.3	4	2.4	7	4.1	5	3.0	6	3.4	5	2.9	6	3.3	5	2.9	7	3.9	4	2.3
0 " 24 "	12	7.8	7	4.6	11	7.1	6	3.9	4	2.5	13	8.4	10	6.2	9	5.7	9	5.6	12	7.6
5 " 29 "	10	7.0	18	13.4	8	5.6	22	16.3	9	6.1	10	7.2	13	8.8	19	13.6	14	9.4	14	10.0
0 " 34 "	25	18.7	32	24.9	22	16.3	45	34.7	19	13.7	31	23.3	19	13.6	39	29.2	20	14.2	43	32.0
5 " 39 "	20	15.3	64	50.9	41	31.1	64	50.5	31	22.9	66	50.7	35	25.7	63	48.1	32	23.4	77	58.5
0 " 44 "	54	44.0	108	94.1	39	31.5	109	94.2	55	43.3	124	104.2	70	54.8	103	86.1	56	43.6	117	97.3
5 " 49 "	82	73.0	143	140.4	103	91.9	163	158.5	83	71.4	173	163.9	108	92.4	162	152.6	99	84.2	174	163.2
0 " 54 "	142	149.4	234	261.5	145	151.2	229	253.1	162	164.4	222	239.8	167	168.8	237	254.3	154	154.8	215	229.5
5 " 59 "	188	257.5	229	310.1	201	272.8	257	368.0	202	277.3	262	364.5	219	288.0	258	357.0	186	243.3	290	399.2
0 " 64 "	254	423.9	280	471.3	269	444.8	268	446.6	238	383.2	302	491.1	300	480.7	274	442.6	262	417.5	266	427.4
5 " 69 "	296	617.5	263	545.3	294	607.7	294	603.4	326	656.1	320	640.0	319	638.9	305	607.1	333	663.4	320	633.6
0 " 74 "	326	889.0	321	854.6	293	791.5	323	846.7	338	888.9	306	766.1	332	869.2	337	861.1	329	856.7	322	818.6
5 " 79 "	255	1243.2	226	1068.9	275	1328.4	242	1132.9	295	1392.1	300	1376.1	297	1390.4	307	1394.0	315	1466.4	269	1215.4
0 " 84 "	140	1456.6	130	1200.3	175	1801.1	135	1112.7	182	1832.2	162	1439.9	183	1826.3	150	1329.7	168	1668.2	160	1410.9
5 " 89 "	44	1275.3	59	1298.6	48	1378.4	71	1602.9	63	1726.9	68	1491.1	61	1697.2	71	1500.3	74	2048.1	72	1513.5
0 " +....	18	1652.8	20	1430.6	8	1454.5	14	988.0	20	1899.3	18	1198.4	13	1145.3	22	1510.9	10	876.4	16	1092.8
Not stated.	....	......	....	......	....	......	....	......	....	......	....	......	1	......	....	......	....	......	....	......
otal......	1885	103.8	2149	122.8	1952	106.5	2262	128.3	2050	109.0	2391	132.1	2173	114.9	2374	130.4	2083	109.5	2389	130.6

CANCER

Table showing the distribution of deaths from various types according to class and rates per 100,000 of population as follows:

	1929		1930		1931		1932		1933		1934		1935		1936		1937		1938	
Buccal cavity...	155	4.7	124	3.7	183	5.3	155	4.4	192	5.4	172	4.8	167	4.6	131	3.5	166	4.4	157	4.2
Stomach.......	1139	34.8	1200	36.2	1889	55.0	1979	56.9	2063	58.5	2092	59.7	2123	59.0	2250	59.7	2314	62.3	2227	59.5
Peritoneum....	627	19.2	629	18.9																
Female genital organs.......	355	10.8	400	12.3	367	10.7	398	11.4	439	12.4	490	13.7	471	13.0	471	12.7	488	13.1	516	14.0
Breast.........	333	10.2	415	12.5	389	11.3	415	11.9	407	11.5	401	11.2	424	11.7	525	14.2	464	12.5	496	13.2
Skin...........	75	2.3	87	2.6	104	3.0	85	2.4	72	2.0	84	2.3	87	2.4	99	2.6	89	2.3	83	2.2
Other or Unspecified.....	718	22.0	780	23.5	794	23.1	793	22.8	871	24.7	795	22.3	941	26.1	965	26.1	1026	27.6	993	26.6
Total........	3402	102.1	3635	107.2	3726	108.6	3825	110.0	4044	114.7	4034	113.2	4214	117.1	4441	120.3	4547	122.5	4472	119.8

CANCER

Rates per 100,000 of population

	1934		1935		1936		1937		1938	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Buccal cavity...............	172	4.8	167	4.6	131	3.5	166	4.4	157	4.2
Digestive tract..............	2,092	59.7	2,123	59.0	2,250	59.7	2,314	62.3	2,227	59.5
Respiratory organs..........	114	3.1	156	4.3	170	4.6	204	5.4	190	5.0
Uterus......................	374	10.4	353	9.8	343	9.2	356	9.5	381	10.2
Female genital organs........	116	3.2	118	3.2	128	3.4	132	3.5	135	3.6
Breast......................	401	11.2	424	11.7	525	14.2	464	12.5	496	13.2
Male genito-urinary organs...	320	8.9	369	10.2	408	11.0	415	11.1	399	10.6
Skin........................	84	2.3	87	2.4	99	2.6	89	2.3	83	2.2
Not specified organs.........	361	10.1	417	11.5	387	10.4	407	10.9	404	10.8
Total.................	4,034	113.2	4,214	117.1	4,441	120.3	4,547	122.5	4,472	119.8

CANCER

Rates per 100,000 of population

	1934				1935				1936			
	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate
Buccal cavity	146	8.0	26	1.4	132	7.2	35	1.9	109	5.7	22	1.2
Digestive tract	1,121	61.7	971	55.5	1,119	61.0	1,004	56.9	1,181	62.8	1,069	59.0
Respiratory organs	72	3.9	42	2.4	112	6.1	44	2.4	107	5.6	63	3.4
Uterus	....	......	374	21.4	......	....	353	20.0			343	17.9
Female genital organs	....	......	116	6.6	....	....	118	6.6	......	.....	128	7.0
Breast	5	0.2	396	22.6	6	0.3	418	23.7	8	0.4	517	28.5
Male genito-urinary organs	320	17.6	....	......	369	20.1	....	.....	408	21.7	....	......
Skin	56	3.0	28	1.6	51	2.7	36	2.0	66	3.5	33	1.8
Not specified organs	165	9.0	196	11.2	163	8.8	254	14.4	171	9.0	216	11.9
Total	1,885	103.8	2,149	123.0	1,952	106.5	2,262	128.3	2,050	109.0	2,391	132.1

CANCER

Rates per 100,000 of population

	1937				1938			
	Male	Rate	Female	Rate	Male	Rate	Female	Rate
Buccal cavity	131	6.9	35	1.9	126	6.6	31	1.6
Digestive tract	1,247	64.9	1067	58.6	1,200	63.1	1,027	56.1
Respiratory organs	147	7.7	57	3.1	128	6.7	62	3.3
Uterus	....	....	356	19.5	....	....	381	20.8
Female genital organs	....	....	132	7.2	....	....	135	7.3
Breast	5	0.2	459	25.2	2	0.1	494	27.0
Male genito-urinary organs	415	21.9	....	....	399	20.9	....	....
Skin	52	2.7	37	2.0	46	2.4	37	2.0
Not specified organs	176	9.3	231	12.6	182	9.5	222	12.1
Total	2,173	114.9	2,374	120.4	2,083	109.5	2,389	120.6

CANCER

The following table shows the difference in rates for the years 1918, 1928 and 1938:

	1918		1928		1938	
	No. of Deaths	Rate	No. of Deaths	Rate	No. of Deaths	Rate
Total	2,103	74.8	3,441	104.8	4,472	119.8
Buccal cavity	77	2.7	132	4.0	157	4.2
Stomach and liver	647	23.0	1,205	36.7	2,227	59.5
Peritoneum and intestines	281	9.9	605	18.4		
Female genital organs	148	5.2	337	10.2	516	14.0
Breast	129	4.5	344	10.4	496	13.2
Skin	71	2.5	72	2.1	83	2.2
Other organs	750	26.6	746	23.7	993	26.6

DEATH RATES BY AGE GROUPS PER 100,000 POPULATION FROM CANCER

	1933-1937		1938	
	No. of Deaths	Rate	No. of Deaths	Rate
Under 30	432	4.4	93	4.6
30–39	764	29.0	172	31.7
40–49	2,101	91.6	446	94.3
50–59	4,103	247.4	845	246.9
60–69	5,726	523.8	1,181	523.4
70–79	5,868	996.8	1,235	1,018.1
80 and over	2,286	1,417.2	500	1,500.1

INFANT MORTALITY

Deaths of Children Under One Year—Stated Causes of Death

(A) Total Deaths

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	Mean
Total	5,204	5,260	4,833	4,133	3,804	3,523	3,515	3,416	3,382	3,245	4,031.5
1. Whooping cough	121	127	117	86	84	122	95	78	59	60	94.9
2. Influenza	208	85	130	102	108	49	88	72	131	65	103.8
3. Convulsions	64	57	55	39	32	34	29	32	22	26	39.0
4. Respiratory diseases	576	595	557	485	419	411	409	426	415	421	471.4
5. Diseases of digestive tract	795	989	815	509	544	507	337	381	411	336	562.4
6. Malformations	459	454	463	481	455	410	415	434	428	446	444.5
7. Diseases of early infancy	2,460	2,403	2,276	2,051	1,813	1,660	1,801	1,637	1,618	1,625	1,934.4
8. All others	521	550	420	380	349	330	341	356	298	266	381.1

(B) Rate Per 1,000 Living Births

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	Mean
Total	76.0	73.7	71.0	61.0	59.6	56.6	55.7	54.4	54.8	49.1	60.9
1. Whooping cough	1.8	1.8	1.6	1.2	1.3	1.9	1.5	1.2	0.9	0.9	1.4
2. Influenza	3.0	1.2	1.8	1.3	1.7	0.7	1.4	1.1	2.1	0.9	1.5
3. Convulsions	0.9	0.8	0.7	0.5	0.5	0.5	0.4	0.5	0.3	0.3	0.5
4. Respiratory diseases	8.4	8.3	8.0	7.2	6.5	6.6	6.4	6.8	6.7	6.4	7.1
5. Diseases of digestive tract	11.6	13.8	11.7	7.5	8.5	8.1	5.3	6.1	6.6	5.1	8.4
6. Malformations	6.7	6.4	8.4	7.1	7.1	6.6	6.6	6.9	6.9	6.8	6.9
7. Diseases of early infancy	35.9	33.7	32.8	30.6	28.5	26.9	28.6	26.2	26.2	24.7	29.4
8. All others	7.7	7.7	6.0	5.6	5.5	5.3	5.5	5.6	4.8	4.0	5.7

Of these infant deaths:

831 or 25.60 per cent. lived less than one day.
701 or 21.60 per cent. lived less than one week.
355 or 10.93 per cent. lived less than one month.
463 or 14.26 per cent. lived less than three months.
429 or 13.22 per cent. lived less than six months.
264 or 8.13 per cent. lived less than nine months.
202 or 6.22 per cent. lived less than one year.

INFANT MORTALITY IN CITIES, TOWNS AND VILLAGES OF 10,000 AND OVER. ONTARIO, 1934-1938.

Cities	Deaths Under 1 Year					Rate per 1000 Live Births				
	1934	1935	1936	1937	1938	1934	1935	1936	1937	1938
Belleville	17	25	31	18	24	46.3	63.3	72.0	47.2	48.6
Brantford	26	35	31	31	33	45.2	58.0	46.5	51.1	56.5
Chatham	26	35	28	29	59	51.4	66.2	48.4	43.0	77.2
Cornwall	53	32	50	52	29	122.1	53.3	88.8	89.5	47.3
Fort William	20	29	27	14	21	42.2	54.6	55.6	27.8	39.3
Galt	16	16	10	7	14	55.3	57.5	37.4	23.7	43.6
Guelph	17	16	11	13	12	51.9	46.9	36.7	43.9	36.2
Hamilton	148	135	115	106	112	54.2	48.8	41.6	38.1	37.4
Kingston	37	29	46	34	50	61.0	42.2	68.2	46.9	66.2
Kirkland Lake	......	......	34	45	34	......	......	67.4	73.2	46.9
Kitchener	36	34	34	34	46	49.5	44.8	45.7	46.3	57.7
London	64	70	77	54	72	47.8	49.0	54.6	36.6	45.3
Niagara Falls	22	20	9	14	17	54.7	45.7	23.4	34.4	40.3
North Bay	24	18	28	27	28	65.2	46.1	71.4	70.1	67.3
Oshawa	34	22	31	31	29	66.6	42.0	59.1	58.0	49.8
Ottawa	200	286	267	255	191	70.8	94.0	84.8	85.4	60.8
Owen Sound	15	11	12	17	17	46.1	34.3	36.6	52.1	46.7
Pembroke	17	22	24	25	26	60.7	71.2	77.4	96.8	99.9
Peterborough	23	36	45	27	31	42.2	63.0	72.4	42.9	44.2
Port Arthur	28	13	21	20	40	58.7	24.8	38.8	35.3	61.6
St. Catharines	28	20	34	19	33	46.2	36.5	58.9	33.2	51.4
St. Thomas	17	18	17	10	18	52.6	60.6	58.4	33.7	43.9
Sarnia	21	22	22	22	21	52.5	51.8	50.8	52.6	42.9
Sault Ste. Marie	27	20	40	40	37	54.7	37.6	72.2	76.6	59.2
Stratford	13	23	9	18	14	40.6	65.7	25.8	48.6	32.9
Sudbury	45	55	73	80	74	58.6	62.8	74.5	68.6	55.8
Timmins	60	53	55	74	57	101.7	84.0	80.0	91.1	65.2
Toronto	517	538	527	472	500	48.7	51.3	50.6	49.9	47.5
Welland	17	13	18	15	18	66.9	42.8	57.5	48.3	49.4
Windsor	89	99	93	103	79	46.2	48.7	44.0	51.1	35.5
Woodstock	10	10	8	14	14	46.7	44.6	33.8	51.2	49.4

PUERPERAL

DEATHS FROM SPECIFIED PUERPERAL CAUSES BY AGE—1938

	Total 10–49	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years	55–59 years
Total puerperal causes	251	......	18	42	66	54	46	23	1	1
Abortion with septic condition	26	......	......	7	8	8	3	......	......	......
Abortion without septic condition	9	......	......	1	3	1	1	3	......	......
Ectopic gestation	11	......	......	3	3	1	1	3	......	......
Other accidents of pregnancy	3	......	......	1	......	......	......	1	1	......
Puerperal haemorrhage	22	......	......	3	7	4	4	4	......	......
Puerperal septicaemia	50	......	7	10	9	12	10	2	......	......
Puerperal albuminuria	45	......	9	5	8	10	9	4	......	......
Other toxemias of pregnancy	9	......	1	1	3	2	2	......	......	......
Puerperal phlegmasia	41	......	......	6	15	9	8	3	......	......
Other accidents of childbirth	35	......	1	5	10	7	8	3	......	1
Others or not specified	......	......	......	......	......	......	......	......	......	......

DEATHS FROM SPECIFIED PUERPERAL CAUSES PER 100 DEATHS FROM ALL PUERPERAL CAUSES BY AGE—1938

	Total 10–49	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years	55–59 years
Total puerperal causes	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Abortion with septic condition	10.35	......	......	16.66	12.12	14.81	6.52	......	......	......
Abortion without septic condition	3.58	......	......	2.38	4.54	1.85	2.17	13.04	......	......
Ectopic gestation	4.38	......	......	7.14	4.54	1.85	2.17	13.04	......	......
Other accidents of pregnancy	1.19	......	......	2.38	......	......	......	4.34	......	......
Puerperal haemorrhage	8.76	......	......	7.14	10.60	7.40	8.69	17.39	......	......
Puerperal septicaemia	19.92	......	38.88	23.80	13.63	22.22	21.73	8.69	......	......
Puerperal albuminuria	17.92	......	50.00	11.90	12.12	18.51	19.56	17.39	......	......
Other toxemias of pregnacy	3.58	......	5.55	2.38	4.54	3.70	4.34	......	......	......
Puerperal phlegmasia	16.33	......	......	14.28	22.72	16.66	17.39	13.04	......	......
Other accidents of childbirth	13.94	......	5.55	11.90	15.15	12.96	17.39	13.04	......	......
Others or not specified	......	......	......	......	......	......	......	......	......	......

DEATHS FROM PUERPERAL CAUSES AND FROM ALL CAUSES OF FEMALE DEATHS

(Showing percent from Puerperal Causes)

Ages 1938	All Causes	Puerperal	% 1938	1929	1930	1931	1932	1933	1934	1935	1936	1937	Mean
10–14	148	......	....	....	....	....	....	1.36	0.66	0.65	....	0.68	0.33
15–19	196	18	9.18	7.21	9.80	7.95	9.99	5.24	8.22	5.83	9.04	8.86	8.13
20–24	266	42	15.78	13.88	21.51	12.42	15.72	20.28	19.38	16.82	19.59	16.52	17.19
25–29	341	66	19.35	17.05	23.57	20.92	20.15	19.80	22.53	18.93	22.75	20.00	20.50
30–34	332	54	17.26	17.06	20.04	21.15	17.83	21.92	20.26	19.07	20.14	20.02	19.47
35–39	419	46	10.97	16.19	16.53	12.98	13.21	13.72	13.33	15.32	13.74	14.91	14.09
40–44	499	23	4.60	7.19	6.12	7.01	6.18	5.20	6.59	4.31	7.54	4.78	5.95
45–49	632	1	0.15	0.14	1.31	0.95	0.89	0.43	0.82	0.48	0.47	0.44	0.60
50–54	765	......	....										
55–59	1046	1	0.95										

NUMBER OF PUERPERAL DEATHS AND RATE PER 1,000 LIVING BIRTHS

	Province			Cities			Towns			Rural		
	Births	Deaths	Rate	Births	Deaths	Rate	Births	Deaths	Rate	Births	Deaths	Rate
1929...	68,485	368	5.4	32,478	224	6.9	6,288	38	6.0	29,692	106	3.6
1930...	71,263	440	6.2	34,380	242	7.0	6,456	37	5.7	30,380	161	5.3
1931...	69,209	372	5.4	33,217	213	6.4	5,998	49	8.1	29,994	110	3.6
1932...	66,842	343	5.0	33,018	208	6.3	4,178	36	8.6	29,646	99	3.3
1933...	63,646	346	5.4	31,107	203	6.5	4,114	25	6.0	28,425	118	4.1
1934...	62,234	348	5.6	30,309	210	6.9	3,876	27	6.9	28,049	111	3.9
1935...	63,069	313	4.9	31,700	246	7.7	3,943	24	6.0	27,426	43	1.5
1936...	62,451	355	5.6	32,425	211	6.5	4,044	24	5.9	25,982	120	4.6
1937...	61,645	319	5.1	32,420	195	6.0	4,164	30	7.2	25,051	94	3.7
1938...	65,564	251	3.8	35,194	155	4.4	4,542	26	5.7	25,828	70	2.7

MATERNAL MORTALITY, ONTARIO, 1938

Cities, Towns and Villages (5,000 population and over)	Total.		Institutional		Non-institutional	
	Live births	Deaths from puerperal causes	Live births	Deaths from puerperal causes	Live births	Deaths from puerperal causes
Barrie	228	...	172	...	56	...
Belleville	493	5	411	4	82	1
Brampton	232	...	217	...	15	...
Brantford	584	1	437	1	147	...
Brockville	344	5	330	5	14	...
Chatham	764	1	626	1	138	...
Cobourg	147	3	123	3	24	...
Collingwood	176	1	98	1	78	...
Cornwall	612	3	488	3	124	...
Eastview	157	...	...	...	157	...
Forest Hill	4	...	...	...	4	...
Fort Erie	101	1	82	...	19	1
Fort Francis	160	...	27	...	133	...
Fort William	533	5	428	5	105	...
Galt	321	1	224	...	97	1
Guelph	331	...	249	...	82	...
Hamilton	2,989	13	2,394	12	595	1
Hawkesbury	213	1	37	...	176	1
Ingersoll	139	3	93	2	46	1
Kenora	285	4	275	3	10	1
Kingston	755	3	686	3	69	...
Kirkland Lake	724	3	398	3	326	...
Kitchener	796	...	621	...	175	...
Leamington	193	1	111	1	82	...
Lindsay	242	1	205	1	37	...
London	1,587	7	1,335	7	252	...
Midland	192	2	124	1	68	1
Mimico	111	...	70	...	41	...
New Toronto	67	...	...	...	67	...
Niagara Falls	421	...	313	...	108	...
North Bay	416	2	247	2	169	...
Orillia	305	2	225	2	80	...
Oshawa	582	2	397	2	185	...
Ottawa	3,140	19	2,644	18	496	1
Owen Sound	364	2	223	2	141	...
Pembroke	260	3	167	3	93	...
Peterborough	700	4	595	4	105	...
Port Arthur	649	5	620	5	29	...
Port Colborne	83	...	...	...	83	...
Preston	66	...	...	...	66	...
Renfrew	151	...	115	...	36	...
Riverside	32	...	...	...	32	...
St. Catharines	641	5	422	4	219	1
St. Thomas	410	3	382	3	28	...
Sarnia	489	1	396	1	93	...
Sault Ste. Marie	625	2	376	2	249	...
Simcoe	344	1	295	1	49	...
Smiths Falls	169	1	148	...	21	1
Stratford	425	2	368	2	57	...
Sudbury	1,325	4	804	4	521	...
Swansea	14	...	...	...	14	...
Thorold	64	...	28	...	36	...
Timmins	873	6	266	4	607	2
Toronto	10,514	40	8,510	36	2,004	4
Trenton	151	...	...	...	151	...
Waterloo	48	...	...	...	48	...
Welland	364	2	268	2	96	...
Weston	110	...	...	...	110	...
Whitby	18	...	...	...	18	...
Windsor	2,220	10	1,353	9	867	1
Woodstock	283	1	240	1	43	...
Total cities, towns and villages of 5,000 and over	39,736	181	29,663	163	10,073	18
Remainder of Province	25,828	70	5,709	26	20,119	44
Grand total	65,564	251	35,372	189	30,192	62

DEATHS OF WOMEN NOT CLASSIFIED TO PREGNANCY OR CHILD-BEARING BUT RETURNED AS ASSOCIATED THEREWITH, ONTARIO, 1938

Int. List No.	Causes of Death	Number
2	Paratyphoid fever	1
8	Scarlet fever	3
11	Influenza	2
16	Poliomyelitis and polioencephalitis (acute)	1
23	Tuberculosis of the respiratory system	8
48	Cancer of the uterus	1
54e	Non-malignant tumours of the thyroid gland	1
55d	Tumours of the brain, nature not specified	1
59	Diabetes mellitus	1
72a	Luekaemia	1
78	Encephalitis (non-epidemic)	1
89a	Otitis	1
91b	Endocarditis unspecified (under 45 years of age)	1
92a	Endocarditis, specified as chronic, and other valvular diseases	3
93a	Acute myocarditis	1
93b	Myocarditis, unspecified (under 45 years of age)	1
94b	Embolism and thrombosis of the coronary arteries	1
96	Aneurysm (except of the heart)	1
107a	Bronchopneumonia	2
108	Lobar pneumonia	8
109	Pneumonia, unspecified	1
112	Asthma	1
114c	Other diseases of the respiratory system (tuberculosis excepted)	1
117a	Ulcer of the stomach	1
118	Other diseases of the stomach	1
121	Appendicitis	2
125a	Yellow atrophy of the liver	1
126	Biliary calculi	1
156a	Diseases of the joints (tuberculosis and rheumatism excepted)	1
163–171	Suicides	1
173–175	Homicides	6
181, 186	Accidental deaths	2
	Total	59

SPECIAL CLASSES OF ACCIDENTAL DEATHS IN ONTARIO, 1938

(Included also under the numbers of the International List.)

Int. List No.	Cause of Death	Male	Female
	A.—Accidents in mines and quarries	54	..
178	Accidental absorption of toxic gases	3	..
181	Accidental burns (conflagration excepted)	3	..
183	Accidental drowning	1	..
186	Accidental injury by fall, crushing or landslide	43	..
194	Other accidents	4	..
	B.—Accidents causes by machines	45	1
183	Accidental drowning	1	1
185	Accidental injury by cutting or piercing instruments	5	..
186	Accidental injury by fall, crushing or landside	37	..
193	Accidents due to electric currents	2	..
	C.—Railway accidents	64	3
186	Accidental injury by fall, crushing or landslide	64	3
	D.—Street car accidents	9	3
186	Accidental injury by fall, crushing or landslide	9	3
	E.—Automobile and motorcycle accidents	500	177
178	Accidental absorption of toxic gases	5	1
180	Conflagration	6	1
181	Accidental burns (conflagration excepted)	2	6
182	Accidental mechanical suffocation	2	..
183	Accidental drowning	13	6
185	Accidental injury by cutting or piercing instruments	1	..
186	Accidental injury by fall, crushing or landslide	468	163
190	Excessive cold	1	..
194	Other accidents	2	..
	F.—Other land transportation	34	5
183	Accidental drowning	3	..
186	Accidental injury by fall, crushing or landside	31	5
	G.—Water transportation	83	2
183	Accidental drowning	80	2
186	Accidental injury by fall, crushing or landslide	3	..
	H.—Air transportation	8	..
183	Accidental drowning	2	..
186	Accidental injury by fall, crushing or landslide	6	..

VIOLENT OR ACCIDENTAL DEATHS (Excluding Suicides)

RATES PER 100,000 OF POPULATION

	1929		1930		1931		1932		1933		1934		1935		1936		1937		1938	
Automobiles	556	16.18	517	15.29	574	16.72	497	14.30	416	11.80	528	14.81	571	15.87	564	15.28	774	20.85	677	18.14
Burns	124	3.72	117	3 46	117	3.41	124	3.56	114	3.23	115	3.22	109	3.03	113	3.06	103	2.77	107	2.86
Drowning	302	9.06	341	10.08	369	10.75	361	10.38	314	8.91	271	7.68	269	7.47	230	6 23	305	8.21	287	7.69
Falls	384	11.52	450	13.31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fractures	93	2.84	63	1.86	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Railroads	159	4.77	163	4.82	105	3.06	97	2.79	86	2.44	91	2.55	83	2.30	97	2.62	93	2.50	67	1.79
Other Accidents*	768	23.0	719	21.22	1228	35.78	1069	30.75	982	27.86	1170	32.83	1273	35.39	1872	50.73	1210	32.59	1256	33.66

*Revised

SUICIDES

In 1938 there were 360 suicides. The rate per 100,000 of population was 9.6, just 0.2 less than for 1937.

Of these, 274 or 76.11 were males and 86 or 23.88 females.

	Total		Under 20		20-39		40-59		60 and over	
	No.	%	No.	%	No.	%	No.	%	No.	%
Males....	274	100	8	2.91	84	30.65	127	46.34	55	20.07
Females..	86	100	3	3.48	35	40.69	35	40.69	13	15.11
Total ..	360	100	11	3.05	119	33.05	162	44.99	68	18.88

Method of suicide over a ten-year period is shown in the following table:

	Total	Rate	Poison	Gas	Hanging	Drowning	Shooting	Cutting	Jumping	Crushing	Others
1928	285	8.7	61	25	78	33	55	22	4	2	2
1929	320	9.6	68	25	74	60	53	21	7	5	2
1930	404	11.9	02	38	90	50	70	33	12	4	2
1931	426	12.4	03	33	95	68	74	24	13	3	3
1932	423	12.2	192	53	74	66	92	29	23	4	....
1933	366	10.3	186	41	88	38	68	29	12	1	3
1934	360	10.1	90	31	61	55	71	32	11	4	5
1935	367	10.2	73	41	82	43	63	27	27	5	6
1936	398	10.7	68	33	90	65	79	25	23	6	9
1937	366	9.8	71	36	75	53	72	26	23	3	7
1938	360	9.6	71	41	81	46	64	21	26	5	5

Table 1—General Summary of Births, Deaths and Marriages in the Province of Ontario by County Municipalities (including Cities, Towns, and Villages), 1938

COUNTIES	Estimated population	BIRTHS (exclusive of stillbirths)			Ratio per 1,000 of population	DEATHS									Ratio per 1,000 of population	Stillbirths	Marriages	Ratio per 1,000 of population
						All ages			Under 1 year		1-4 years		5 years and over					
		Total	M	F		Total	M	F	M	F	M	F	M	F				
Total	3,731,000	65,564	33,605	31,959	17.6	36,890	19,814	17,076	1,850	1,395	369	359	17,595	15,322	9.9	2,015	30,080	8.1
Addington	7462	116	60	56	15.5	63	28	35	2	2	...	...	26	33	8.4	...	36	4.8
Algoma	50369	1067	566	501	21.1	455	275	180	48	20	9	7	218	153	9.0	33	417	8.2
Brant	58204	904	457	447	15.5	672	357	315	25	23	6	6	326	286	11.5	25	438	8.2
Bruce	45891	742	375	367	16.1	481	274	207	17	22	3	1	254	184	10.4	12	316	6.8
Carleton	185058	3585	1763	1822	19.3	2000	1010	990	121	90	20	21	869	879	10.8	115	1419	7.6
Cochrane	63054	2245	1145	1100	45.6	515	302	213	66	68	18	18	218	127	8.1	74	678	10.7
Dufferin	16043	253	135	118	15.7	187	96	91	5	7	...	...	91	84	11.6	10	106	6.6
Dundas	17534	289	147	142	16.4	154	83	71	11	7	...	...	72	64	8.7	7	104	5.9
Durham	27983	371	183	188	13.2	308	179	129	16	8	1	1	162	120	11.0	13	166	5.9
Elgin	47384	703	363	340	14.8	506	270	236	15	12	2	3	253	221	10.6	19	358	7.5
Essex	173865	3210	1650	1560	18.4	1321	703	618	68	54	15	19	620	545	7.5	89	1436	8.2
Frontenac	49622	1000	519	481	20.1	744	392	352	33	29	11	6	348	317	14.9	34	407	8.2
Glengarry	20147	298	153	145	14.7	204	104	100	9	4	1	6	94	90	10.1	7	134	6.6
Grenville	17909	185	94	91	10.3	201	105	96	7	5	3	...	95	91	11.2	7	128	7.1
Grey	62681	982	485	497	15.6	679	392	287	26	18	5	3	361	266	10.8	42	397	6.3
Haldimand	23132	297	142	155	12.8	204	99	105	3	4	1	1	95	100	8.8	7	174	7.5
Haliburton	6343	172	85	87	27.1	55	32	23	3	5	2	...	27	18	8.6	8	37	5.8
Halton	28729	265	127	138	9.2	225	117	108	2	2	2	1	113	105	7.8	8	231	8.0
Hastings	64173	1312	664	648	20.4	650	359	291	29	35	5	9	325	247	10.1	44	508	7.9
Huron	49249	758	384	374	15.3	530	282	248	20	11	1	4	261	233	10.7	23	293	5.9
Kenora (including Patricia)	28355	621	324	297	21.9	238	146	92	31	22	5	8	110	62	8.3	14	217	7.6
Kent	68277	1339	685	654	19.6	740	436	304	54	27	8	6	374	271	10.8	32	564	8.2
Lambton	59323	996	515	481	16.7	624	309	315	23	21	3	2	283	292	10.5	31	449	7.5
Lanark	35818	612	321	291	17.0	381	205	176	14	10	1	1	190	165	10.6	18	264	7.3
Leeds	38429	708	377	331	18.4	489	251	238	20	12	6	1	225	225	12.7	20	264	6.8
Lennox	13059	119	58	61	9.1	108	55	53	1	2	1	1	53	50	8.2	1	95	7.2
Lincoln	58950	947	493	454	16.0	613	334	279	23	23	5	4	306	252	10.3	28	488	8.2
Manitoulin	11566	276	128	148	23.8	136	71	65	9	12	6	7	56	46	11.7	11	66	5.7
Middlesex	128720	2053	1063	990	15.9	1615	857	758	51	34	15	14	791	710	12.5	76	1055	8.1
Muskoka	22759	416	228	188	18.2	278	153	125	13	14	3	5	137	106	12.2	6	177	7.7
Nipissing	44772	1136	553	583	25.3	408	241	167	46	39	16	10	179	118	9.1	41	375	8.3
Norfolk	33952	690	348	342	20.3	386	202	184	14	12	3	6	185	166	11.3	16	288	8.4
Northumberland	34325	503	272	231	14.6	357	181	176	13	12	...	3	168	161	10.4	18	212	6.1
Ontario	64919	944	512	432	14.5	625	316	309	29	11	4	4	283	294	9.6	35	414	6.3
Oxford	51861	950	475	475	18.3	636	325	311	26	13	3	7	296	291	12.2	28	449	8.6
Parry Sound	27983	611	329	282	21.8	238	148	90	15	14	3	1	130	75	8.5	23	184	6.5
Peel	30594	384	187	197	12.5	249	136	113	14	7	1	1	121	105	8.1	10	184	6.0
Perth	55965	821	418	403	14.6	534	259	275	18	9	1	1	240	265	9.5	17	387	6.9
Peterborough	47757	915	481	434	19.1	548	286	262	21	22	7	4	258	236	11.4	28	397	8.3
Frescott	26863	697	371	326	25.9	242	120	122	41	25	1	3	78	94	9.0	13	179	6.6
Prince Edward	17909	292	138	154	16.3	233	114	119	8	7	2	2	104	110	13.0	3	92	5.1
Rainy River	19028	454	234	220	23.8	158	94	64	15	18	6	6	73	40	8.3	12	85	4.4
Renfrew	56711	1018	519	499	17.9	516	273	243	42	25	10	12	221	206	9.0	40	306	5.3
Russell	20147	408	206	202	20.2	139	76	63	18	14	1	1	57	48	6.9	11	110	5.4
Simcoe	91036	1578	790	788	17.3	1052	574	478	41	38	14	10	519	430	11.5	59	623	6.8
Stormont	35445	1023	536	487	28.8	381	205	176	32	20	7	7	166	149	10.7	43	319	9.0
Sudbury	63427	2418	1264	1154	38.1	618	394	224	97	66	16	18	281	140	9.7	59	712	11.2
Thunder Bay	70889	1446	723	723	20.3	585	352	233	43	32	7	6	302	195	8.2	37	618	8.7
Timiskaming	40295	1411	711	700	30.0	379	224	155	38	32	6	10	180	113	9.4	38	516	12.9
Victoria	27983	422	221	201	15.0	321	155	166	13	9	5	5	137	152	11.4	13	193	6.8
Waterloo	97752	1623	848	775	16.6	932	486	446	47	31	11	3	428	412	9.5	45	770	7.8
Welland	89917	1393	719	674	15.4	754	405	349	34	24	11	5	360	320	8.3	40	796	8.8
Wellington	63054	1051	543	508	16.6	699	377	322	27	14	4	5	346	303	11.1	36	425	6.7
Wentworth	206697	3210	1631	1579	15.5	2049	1083	966	73	52	18	12	992	902	9.9	91	1674	8.1
York	931631	13325	6887	6438	14.2	8475	4512	3963	320	246	54	62	4138	3655	9.0	445	8350	8.9

Table 2—Number of Births, Deaths and Marriages, and the ratio per 1,000 of population in each County (excluding Cities, Towns, and Villages of 5,000 population and over), Ontario, 1938

COUNTIES	Estimated population	BIRTHS (exclusive of stillbirths)			Ratio per 1,000 of population	DEATHS									Ratio per 1,000 of population	Stillbirths	Marriages	Ratio per 1,000 of population
						All ages			Under 1 year		1-4 years		5 years and over					
		Total	M	F		Total	M	F	M	F	M	F	M	F				
Total, including all municipalities......	3,731,000	65,564	33,605	31,959	17.6	36,890	19,814	17,076	1,850	1,395	369	359	17,595	15,322	9.9	2,015	30,080	8.1
Total, excluding cities, towns and villages of 5,000 and over..	1,877,574	25,828	13,105	12,723	13.7	15,714	8,588	7,126	729	556	150	148	7,709	6,422	8.3	722	10,436	5.5
Addington...........	7462	116	60	56	15.5	63	28	35	2	2	...	...	26	33	8.4	...	36	4.8
Algoma..............	26516	442	239	203	16.6	218	141	77	23	8	6	3	112	66	8.2	19	132	4.9
Brant...............	26655	320	153	167	12.0	256	147	109	11	4	1	1	135	104	9.6	4	105	3.9
Bruce...............	45891	742	375	367	16.1	481	274	207	17	22	3	1	254	184	10.4	12	316	6.8
Carleton............	33600	288	132	156	8.6	242	121	121	7	4	1	2	113	115	7.2	6	159	4.7
Cochrane............	38035	1372	698	674	36.0	337	201	136	37	40	12	14	152	82	8.8	42	325	8.5
Dufferin............	16043	253	135	118	15.7	187	96	91	5	7	...	...	91	84	11.6	10	106	6.6
Dundas..............	17534	289	147	142	16.4	154	83	71	11	7	...	...	72	64	8.7	7	104	5.9
Durham..............	27983	371	183	188	13.2	308	179	129	16	8	1	1	162	120	11.0	13	166	5.9
Elgin...............	30992	293	150	143	9.4	285	165	120	5	4	1	3	159	113	9.1	6	198	6.3
Essex...............	59138	765	369	396	12.9	343	193	150	17	19	1	1	175	130	5.8	11	304	5.1
Frontenac...........	25291	245	113	132	9.6	222	127	95	7	5	...	1	120	89	8.7	12	98	3.8
Glengarry...........	20147	298	153	145	14.7	204	104	100	9	4	1	6	94	90	10.1	7	134	6.6
Grenville...........	17909	185	94	91	10.3	201	105	96	7	5	3	...	95	91	11.2	7	128	7.1
Grey................	49244	618	323	295	12.3	477	266	211	17	10	3	1	246	200	9.6	24	258	5.2
Haldimand...........	23132	297	142	155	12.8	204	99	105	3	4	1	1	95	100	8.8	7	174	7.5
Haliburton..........	6343	172	85	87	27.1	55	32	23	3	5	2	...	27	18	8.6	8	37	5.8
Halton..............	28729	265	127	138	9.2	225	117	108	2	2	2	1	113	105	7.8	8	231	8.0
Hastings............	42566	668	353	315	15.6	355	206	149	16	17	1	4	189	128	8.3	18	240	5.6
Huron...............	49249	758	384	374	15.3	530	282	248	20	11	1	4	261	233	10.7	23	293	5.9
Kenora, including Patricia...........	19879	336	177	159	16.9	149	88	61	19	18	4	6	65	37	7.4	5	127	6.3
Kent................	51696	575	276	299	11.1	407	240	167	13	9	5	3	222	155	7.8	11	344	6.5
Lambton.............	41054	507	269	238	12.3	384	184	200	12	11	3	...	169	189	9.3	13	246	5.9
Lanark..............	28192	443	224	219	15.2	267	144	123	11	6	1	...	132	117	9.4	14	188	6.6
Leeds...............	28446	364	188	176	12.7	292	147	145	8	5	1	1	138	139	10.2	7	145	5.0
Lennox..............	13059	119	58	61	9.1	108	55	53	1	2	1	1	53	50	8.2	1	95	7.2
Lincoln.............	31303	306	166	140	9.7	269	151	118	7	6	1	1	143	111	8.5	7	201	6.4
Manitoulin..........	11566	276	128	148	23.8	136	71	65	9	12	6	7	56	46	11.7	11	66	5.7
Middlesex...........	52582	466	242	224	9.1	509	290	219	9	4	2	4	279	211	9.6	18	245	4.6
Muskoka.............	22759	416	228	188	18.2	278	153	125	13	14	3	5	137	106	12.2	6	177	7.7
Nipissing...........	29364	720	344	376	24.5	238	143	95	31	26	12	5	100	64	8.1	26	196	6.6
Norfolk.............	27900	346	169	177	12.4	264	142	122	6	4	2	1	134	117	9.4	7	217	7.7
Northumberland......	28448	356	197	159	12.5	262	132	130	8	10	...	2	124	118	9.4	12	154	5.4
Ontario.............	34620	344	176	168	9.9	270	127	143	7	4	2	1	118	138	7.7	12	162	4.6
Oxford..............	35293	528	268	260	14.9	336	169	167	13	7	2	6	154	154	9.5	17	284	8.0
Parry Sound.........	27983	611	329	282	21.8	238	148	90	15	14	3	1	130	75	8.5	23	184	6.5
Peel................	24956	152	75	77	6.0	170	93	77	9	4	...	1	84	72	6.8	5	139	5.5
Perth...............	38806	396	196	200	10.2	306	145	161	9	4	1	1	135	156	7.8	9	211	5.4
Peterborough........	23611	215	103	112	9.1	183	101	82	7	5	2	1	92	76	7.7	5	95	4.1
Prescott............	20810	484	258	226	23.2	174	87	87	30	16	1	3	56	68	8.3	6	144	6.9
Prince Edward.......	17909	292	138	154	16.3	233	114	119	8	7	2	2	104	110	13.0	3	92	5.1
Rainy River.........	13143	294	145	149	22.3	108	64	44	10	15	6	5	48	24	8.2	8	40	3.0
Renfrew.............	40923	607	314	293	14.8	263	145	118	24	13	5	4	116	101	6.4	18	179	4.3
Russell.............	20147	408	206	202	20.2	139	76	63	18	14	1	1	57	48	6.9	11	110	5.4
Simcoe..............	61814	677	327	350	10.9	553	308	245	19	16	8	8	281	221	8.9	24	302	4.8
Stormont............	22068	411	217	194	18.6	176	93	83	14	9	1	3	78	71	7.9	16	81	3.6
Sudbury.............	36964	1093	549	544	29.5	344	224	120	49	40	8	8	167	72	9.3	23	259	7.0
Thunder Bay.........	24390	264	136	128	10.8	119	79	40	7	7	2	3	70	30	4.8	5	93	3.8
Timiskaming.........	18336	687	351	336	37.4	243	142	101	22	14	4	4	116	83	13.2	18	245	13.3
Victoria............	20689	180	87	93	8.7	171	90	81	5	2	2	4	83	75	8.2	4	103	4.9
Waterloo............	35265	392	209	183	11.1	267	150	117	10	4	4	...	136	113	7.5	12	198	5.6
Welland.............	42511	360	185	175	8.4	229	122	107	7	6	4	2	111	99	5.3	8	218	5.1
Wellington..........	41340	720	359	361	17.4	479	247	232	17	12	3	4	227	216	11.5	22	219	5.2
Wentworth...........	51421	221	121	100	4.2	511	286	225	9	4	2	...	275	221	9.9	2	203	3.9
York................	245868	2505	1275	1230	8.3	1292	672	620	38	24	6	6	628	590	5.2	89	930	3.7

Table 3—General Summary of Births, Deaths and Marriages in the Province of Ontario for Cities, Towns, and Villages of 10,000 Population and Over, 1938

CITIES, TOWNS, AND VILLAGES	Estimated Population	BIRTHS (exclusive of stillbirths)			Ratio per 1,000 of population	DEATHS									Ratio per 1,000 of population	Stillbirths	Marriages	Ratio per 1,000 of population
						All ages			Under 1 year		1-4 years		5 years and over					
		Total	M	F		Total	M	F	M	F	M	F	M	F				
Total	1,661,188	35,194	18,121	17,073	21.1	18,783	9,994	8,789	1,006	744	193	187	8,795	7,858	11.3	1,143	17,733	10.6
Belleville	14764	493	235	258	33.4	248	135	113	12	12	4	4	119	97	16.8	21	179	12.2
Brantford	31549	584	304	280	18.5	416	210	206	14	19	5	5	191	182	18.1	21	333	10.5
Chatham	16581	764	409	355	46.0	333	196	137	41	18	3	3	152	116	20.0	21	220	13.2
Cornwall	13377	612	319	293	45.7	205	112	93	18	11	6	4	88	78	15.3	27	238	17.8
Forest Hill	11117	4	3	1	3.6	34	15	19	...	...	...	...	15	19	30.6	1	6	5.4
Fort William	25050	533	274	259	21.2	213	123	90	14	7	3	1	106	82	8.5	14	300	11.9
Galt	14219	321	157	164	22.5	189	74	115	5	9	2	1	67	105	13.3	10	124	8.9
Guelph	21714	331	184	147	15.2	220	130	90	10	2	1	1	119	87	10.1	14	206	9.4
Hamilton	155276	2989	1510	1479	19.2	1538	797	741	64	48	16	12	717	681	9.9	89	1471	9.4
Kingston	24331	755	406	349	31.0	522	265	257	26	24	11	5	228	228	21.4	22	309	12.6
Kirkland Lake	21959	724	360	364	32.9	136	82	54	16	18	2	6	64	30	6.1	20	271	12.3
Kitchener	33309	796	415	381	23.9	379	217	162	31	15	3	2	183	145	11.3	22	312	9.3
London	76138	1587	821	766	20.8	1106	567	539	42	30	13	10	512	499	14.5	58	810	10.6
Niagara Falls	18928	421	218	203	22.2	233	121	112	14	3	5	1	102	108	12.3	14	197	10.4
North Bay	15408	416	209	207	27.0	170	98	72	15	13	4	5	79	54	11.0	15	179	11.6
Oshawa	24756	582	326	256	23.5	199	112	87	22	7	2	3	88	77	8.0	23	198	7.9
Ottawa	144202	3140	1555	1585	21.7	1727	873	854	110	81	18	19	745	754	11.9	102	1204	8.3
Owen Sound	13437	364	162	202	27.1	202	126	76	9	8	2	2	115	66	15.0	18	139	10.3
Pembroke	10412	260	134	126	24.9	181	94	87	15	11	4	4	75	72	17.3	12	72	6.9
Peterborough	24146	700	378	322	28.9	365	185	180	14	17	5	3	166	160	15.1	23	302	12.5
Port Arthur	21449	649	313	336	30.2	253	150	103	22	18	2	2	126	83	11.7	18	225	10.4
St. Catharines	27647	641	327	314	23.1	344	183	161	16	17	4	3	163	141	12.4	21	287	10.3
St. Thomas	16392	410	213	197	24.0	221	105	116	10	8	1	...	94	108	13.4	13	160	9.7
Sarnia	18269	489	246	243	26.7	240	125	115	11	10	...	2	114	103	13.1	18	203	11.1
Sault Ste. Marie	23853	625	327	298	26.2	237	134	103	25	12	3	4	106	87	9.9	14	285	11.9
Stratford	17159	425	222	203	24.7	228	114	114	9	5	...	...	105	109	13.2	8	176	10.2
Sudbury	26463	1325	715	610	50.0	274	170	104	48	26	8	10	114	68	10.3	36	453	17.1
Timmins	25019	873	447	426	34.9	178	101	77	29	28	6	4	66	45	7.1	32	353	14.1
Toronto	647803	10514	5460	5054	16.2	6947	3728	3219	281	219	47	55	3400	2945	10.7	346	7197	11.1
Welland	11072	364	186	178	32.8	154	86	68	8	10	1	1	77	57	13.9	13	163	14.7
Windsor	104007	2220	1147	1073	21.3	878	454	424	46	33	11	15	397	376	8.4	71	1041	13.5
Woodstock	11382	283	139	144	24.8	213	112	101	9	5	1	...	102	96	18.7	6	120	10.5

Table 4—General Summary of Births, Deaths and Marriages for Towns and Villages of 5,000 to 10,000 Population, in the Province of Ontario, 1938

TOWNS AND VILLAGES 5,000 to 10,000 population	Estimated Population	BIRTHS (exclusive of stillbirths)			Ratio per 1,000 of population	DEATHS									Ratio per 1,000 of population	Stillbirths	Marriages	Ratio per 1,000 of population
						All ages			Under 1 year		1-4 years		5 years and over					
		Total	M	F		Total	M	F	M	F	M	F	M	F				
Total	192,238	4,542	2,379	2,163	23.6	2,393	1,232	1,161	115	95	26	24	1,091	1,042	12.4	150	1,911	9.9
Barrie	8310	228	107	121	27.4	126	68	58	1	4	1	...	66	54	15.1	6	89	10.7
Brampton	5638	232	112	120	41.1	79	43	36	5	3	1	...	37	33	14.0	5	45	7.8
Brockville	9983	344	189	155	34.4	197	104	93	12	7	5	...	87	86	19.7	13	119	12.9
Cobourg	5877	147	75	72	25.0	95	49	46	5	2	...	1	44	43	16.1	6	58	9.8
Collingwood	5322	176	97	79	33.0	112	62	50	6	2	...	1	56	47	21.0	9	55	10.3
Eastview	7256	157	76	81	21.6	31	16	15	4	5	1	...	11	10	4.2	7	56	7.7
Fort Erie	5898	101	53	48	17.1	62	33	29	1	2	...	...	32	27	10.5	2	90	15.2
Fort Frances	5885	160	89	71	27.1	50	30	20	5	3	...	1	25	16	8.4	4	45	7.6
Hawkesbury	6053	213	113	100	35.1	68	33	35	11	9	...	...	22	26	11.2	7	35	5.7
Ingersoll	5186	139	68	71	26.7	87	44	43	4	1	...	1	40	41	16.7	5	45	8.6
Kenora	8476	285	147	138	33.6	89	58	31	12	4	1	2	45	25	10.4	9	90	10.6
Leamington	5630	193	112	81	34.2	80	43	37	5	2	1	2	37	33	14.2	6	68	12.0
Lindsay	7294	242	134	108	33.1	150	65	85	8	7	3	1	54	77	20.5	9	90	12.3
Midland	6669	192	101	91	28.7	95	46	49	6	8	3	...	37	41	14.2	7	61	9.1
Mimico	7012	111	55	56	15.8	25	12	13	1	...	...	1	11	12	3.5	5	53	7.5
New Toronto	8664	67	41	26	7.7	115	56	59	...	1	...	...	56	58	13.2	2	46	5.3
Orillia	8921	305	158	147	34.1	166	90	76	9	8	2	1	79	67	18.5	13	116	12.9
Port Colborne	6503	83	48	35	12.7	27	20	7	3	1	1	1	16	5	4.1	1	64	9.8
Preston	6422	66	41	25	10.2	36	15	21	...	1	...	...	15	20	5.6	...	59	9.1
Renfrew	5376	151	71	80	28.0	72	34	38	3	1	1	4	30	33	13.3	10	55	10.2
Riverside	5090	32	22	10	6.2	20	13	7	...	...	2	1	11	6	3.9	1	23	4.5
Simcoe	6052	344	179	165	56.8	122	60	62	8	8	1	5	51	49	20.1	9	71	11.7
Smiths Falls	7626	169	97	72	22.1	114	61	53	3	4	...	1	58	48	14.9	4	76	9.9
Swansea	6068	14	9	5	2.3	30	12	18	...	...	1	...	11	18	4.9	...	47	7.7
Thorold	5005	64	29	35	12.7	49	23	26	1	2	...	...	22	24	9.7	2	64	12.7
Trenton	6843	151	76	75	22.0	47	18	29	1	6	...	1	17	22	6.8	5	89	13.0
Waterloo	8537	48	26	22	5.6	61	30	31	1	2	2	...	27	29	7.1	1	77	9.0
Weston	5099	110	44	66	21.5	32	17	15	...	2	...	...	17	13	6.2	2	71	13.9
Whitby	5543	18	10	8	3.2	156	77	79	...	...	...	...	77	79	28.1	...	54	9.7

Table 5—General Summary of Births, Deaths and Marriages in the Province of Ontario for Towns and Villages of 1,000 Population and under 5,000—1938

Towns and Villages 1,000 and over and under 5,000	Estimated population	BIRTHS (exclusive of stillbirths)			Ratio per 1,000	DEATHS									Ratio per 1,000	Stillbirths	Marriages	Ratio per 1,000
						All ages			Under 1 year		1-4 years		5 years and over					
		Total	M	F		Total	M	F	M	F	M	F	M	F				
Total	290031	6909	3503	3406	23.8	3722	1926	1796	172	145	30	29	1724	1622	12.8	218	3603	12.4
Acton	1869	28	15	13	14.9	21	8	13	...	...	...	...	8	13	11.2	...	12	6.4
Alexandria	1971	55	30	25	27.9	21	12	9	1	1	1	...	10	8	10.6	...	31	15.7
Alliston	1405	97	50	47	69.0	50	24	26	3	1	1	...	20	25	35.5	5	17	12.0
Almonte	2259	116	67	49	51.3	32	18	14	1	1	...	...	17	13	14.1	3	31	13.7
Amherstburg	2755	33	11	22	11.9	20	8	12	2	2	...	...	6	10	7.2	...	39	14.1
Arnprior	3995	62	28	34	15.5	24	14	10	...	2	...	...	14	8	6.0	3	36	9.0
Arthur	1017	19	9	10	18.6	17	10	7	1	...	...	...	9	7	16.7	1	21	20.6
Aurora	2770	1	1	...	0.3	30	20	10	...	...	...	...	20	10	10.8	...	24	8.6
Aylmer	2156	29	19	10	13.4	36	21	15	...	...	...	...	21	15	16.6	...	27	12.5
Barry's Bay	1101	34	15	19	30.8	2	1	1	1	...	...	...	...	1	1.8	2	10	9.0
Beamsville	1161	23	15	8	19.8	15	6	9	...	...	1	...	5	9	12.9	...	17	14.6
Blenheim	1758	25	15	10	14.2	22	10	12	...	...	...	...	10	12	12.5	...	22	12.5
Blind River	2375	103	59	44	43.3	36	25	11	9	5	1	...	15	6	15.1	7	21	8.8
Bowmanville	3850	133	69	64	34.5	74	41	33	7	4	...	1	34	28	19.2	6	42	10.9
Bracebridge	2575	96	55	41	37.2	56	29	27	4	2	1	1	24	24	21.7	3	40	15.5
Brighton	1454	12	6	6	8.2	17	10	7	1	1	...	...	9	6	11.6	...	16	11.0
Burlington	3679	27	14	13	7.3	21	9	12	...	1	...	...	9	11	5.7	...	59	16.0
Caledonia	1425	14	4	10	9.8	11	2	9	...	1	...	...	2	8	7.7	...	17	11.9
Campbellford	2876	74	43	31	25.7	41	11	30	2	3	...	...	9	27	14.2	4	34	11.8
Capreol	1670	23	7	16	13.7	10	7	3	1	...	...	...	6	3	5.9	...	16	9.5
Cardinal	1556	38	18	20	24.4	24	12	12	...	1	...	...	12	11	15.4	2	22	14.1
Carleton Place	4278	40	23	17	9.3	36	17	19	...	2	...	...	17	17	8.4	1	35	8.1
Chesley	1815	39	22	17	21.4	19	7	12	...	...	...	...	7	12	10.4	...	19	10.4
Chesterville	1083	21	10	11	19.3	15	9	6	1	...	...	...	8	6	13.8	1	11	10.1
Chippawa	1140	7	4	3	6.1	8	5	3	...	...	1	...	4	3	7.0	...	14	12.2
Clinton	1888	76	35	41	40.2	37	15	22	...	1	...	...	15	21	19.5	4	32	16.9
Cobalt	2872	79	33	46	27.5	29	17	12	3	...	1	2	13	10	10.0	3	42	14.6
Cochrane	2907	122	60	62	41.9	55	30	25	2	7	1	1	27	17	18.9	2	47	16.1
Coniston	2118	49	20	29	23.1	4	3	1	2	1	...	...	1	...	1.8	3	19	8.9
Copper Cliff	3855	41	26	15	10.6	30	24	6	...	...	...	1	24	5	7.7	...	87	22.5
Delhi	2083	23	8	15	11.0	27	14	13	1	1	...	...	13	12	12.9	...	55	26.4
Deseronto	1209	10	4	6	8.2	14	8	6	...	1	...	...	8	5	11.5	...	11	9.0
Dresden	1574	32	18	14	20.3	29	13	16	1	...	...	...	12	16	18.4	...	22	13.9
Dryden	1556	136	72	64	87.3	41	27	14	9	5	1	2	17	7	26.3	4	41	26.3
Dundas	4770	24	10	14	5.0	61	32	29	1	1	...	...	31	28	12.7	...	49	10.2
Dunnville	4041	102	48	54	25.2	43	23	20	...	1	1	...	22	19	10.6	4	46	11.3
Durham	1864	53	28	25	28.4	37	21	16	1	...	1	...	19	16	19.8	1	19	10.1
Eganville	1005	19	10	9	18.9	8	4	4	...	...	1	...	3	4	7.9	...	12	11.9
Elmira	2074	18	9	9	8.6	19	12	7	1	...	...	...	11	7	9.1	...	21	10.1
Elora	1187	7	4	3	5.8	11	5	6	...	...	...	...	5	6	9.2	1	17	14.3
Essex	1854	27	13	14	14.5	17	10	7	1	...	...	...	9	7	9.1	...	25	13.4
Exeter	1649	39	19	20	23.6	15	4	11	...	...	1	...	3	11	9.0	...	14	8.4
Fergus	2732	71	31	40	25.9	46	19	27	3	3	...	...	16	24	16.8	1	25	9.1
Forest	1520	17	7	10	11.1	18	8	10	...	...	...	...	8	10	11.8	1	23	15.1
Gananoque	3549	93	49	44	26.2	39	17	22	...	...	...	1	17	21	10.9	1	48	13.5
Georgetown	2362	14	7	7	5.9	20	11	9	1	...	...	...	10	9	8.4	1	16	6.7
Goderich	4407	99	51	48	22.4	79	46	33	2	...	...	1	44	32	17.9	4	34	7.7
Gravehurst	2135	51	23	28	23.8	18	7	11	1	4	...	1	6	6	8.4	...	35	16.3
Grimsby	1981	53	32	21	26.7	24	12	12	2	1	...	...	10	11	12.1	1	39	19.6
Hagersville	1355	33	19	14	24.3	16	4	12	...	...	...	...	4	12	11.8	1	22	16.2
Haileybury	2752	61	28	33	22.1	68	35	33	3	6	...	...	32	27	24.7	1	43	15.6
Hanover	3215	66	32	34	20.5	36	23	13	2	1	...	...	21	12	11.1	2	37	11.5
Harriston	1269	20	11	9	15.7	21	11	10	...	1	...	...	11	9	16.5	...	16	12.6
Havelock	1147	36	22	14	31.3	18	9	9	1	2	...	...	8	7	15.6	1	17	14.8
Hespeler	2828	19	9	10	6.7	19	8	11	...	...	...	...	8	11	6.7	...	60	21.2
Humberstone	2738	42	22	20	15.3	14	8	6	...	...	...	...	8	6	5.1	...	22	8.0
Huntsville	2727	85	45	40	31.1	26	16	10	...	1	...	...	16	9	9.5	1	47	17.2
Iroquois	1078	20	9	11	18.5	8	3	5	...	1	...	...	3	4	7.4	...	13	12.0
Iroquois Falls	1391	67	34	33	48.1	25	21	4	2	1	...	1	19	2	17.9	3	31	22.2
Kapuskasing	3522	145	69	76	41.1	25	12	13	3	6	2	4	7	3	7.0	6	33	9.3
Keewatin	1460	4	3	1	2.7	9	4	5	...	...	...	...	4	5	6.1	...	10	6.8
Kemptville	1218	10	4	6	8.2	15	5	10	...	1	...	...	5	9	12.3	1	7	5.7
Kincardine	2464	7	5	2	2.8	17	6	11	...	2	...	...	6	9	6.8	...	37	15.0
Kingsville	2359	27	14	13	11.4	20	13	7	1	...	...	...	12	7	8.4	...	40	16.9
Lakefield	1308	4	2	2	3.0	17	11	6	...	1	...	...	11	5	12.9	...	16	12.2
Listowell	2773	85	41	44	30.6	39	14	25	3	1	...	...	11	24	14.0	1	24	8.6
Little Current	1049	19	9	10	18.1	15	6	9	1	2	...	2	5	5	14.2	...	7	6.6
Long Branch	4140	38	14	24	9.1	14	7	7	...	1	...	...	7	6	3.3	2	36	8.6
Lucknow	1034	8	7	1	7.7	5	4	1	...	...	...	...	4	1	4.8	...	11	10.6
Madoc	1108	16	10	6	14.4	17	10	7	1	...	...	...	9	7	15.3	2	19	17.1
Markham	1153	24	10	14	20.8	7	3	4	...	...	...	...	3	4	6.0	...	11	9.5
Mattawa	2126	70	29	41	32.9	38	23	15	6	3	3	1	14	11	17.8	3	22	10.3
Meaford	2811	85	45	40	30.6	36	19	17	1	1	...	...	18	16	12.8	2	22	7.8
Merritton	2656	16	11	5	6.0	13	5	8	...	1	...	...	5	7	4.8	...	18	6.7
Milton	1848	24	12	12	12.9	10	5	5	...	...	1	...	4	5	5.4	1	22	11.9
Milverton	1010	11	5	6	10.8	12	8	4	1	...	...	...	7	4	11.8	1	9	8.9
Mitchell	1615	18	8	10	11.1	29	13	16	2	...	...	...	11	16	17.9	...	22	13.6
Morrisburg	1853	22	15	7	11.8	15	5	10	...	...	...	...	5	10	8.0	...	19	10.2
Mount Forest	1840	49	30	19	26.6	36	17	19	1	...	...	1	16	18	19.5	4	17	9.2
Napanee	3148	38	17	21	12.0	37	14	23	...	1	1	...	13	22	11.7	...	51	16.2
New Hamburg	1458	14	7	7	9.6	12	8	4	...	...	...	...	8	4	8.2	...	13	8.9
New Liskeard	2987	66	45	21	22.0	15	7	8	1	...	...	...	6	8	5.0	1	53	17.7
Newmarket	3565	219	120	99	61.4	71	28	43	3	...	...	...	25	43	19.9	8	32	8.9
Niagara	1670	33	13	20	19.7	28	19	9	2	1	...	...	17	8	16.7	1	21	12.5
Norwich	1365	56	30	26	41.0	17	7	10	...	1	...	...	7	9	12.4	...	21	15.3

Table 5—General Summary of Births, Deaths and Marriages in the Province of Ontario for Towns and Villages of 1,000 Population and under 5,000, 1938—Continued

Towns 1,000 and over and under 5,000	Estimated population	BIRTHS (Exclusive of stillbirths)			Ratio per 1,000	DEATHS									Ratio per 1,000	Still-births	Marriages	Ratio per 1,000
						All ages			Under 1 year		1-4 years		5 years and over					
		Total	M	F		Total	M	F	M	F	M	F	M	F				
Oakville	3864	38	19	19	9.8	33	21	12	1	...	...	...	20	12	8.5	2	52	13.4
Orangeville	2660	115	62	53	43.2	81	41	40	2	3	...	...	39	37	30.4	6	37	13.9
Palmerston	1406	44	19	25	31.2	30	17	13	...	1	...	...	17	12	21.3	...	11	7.8
Paris	4369	88	45	43	20.1	55	24	31	2	...	...	...	22	31	12.5	1	39	8.9
Parry Sound	3599	218	116	102	61.5	67	36	31	3	3	1	1	32	27	18.6	11	60	16.6
Penetanguishene	4689	145	64	81	30.9	69	40	29	3	4	1	...	36	25	14.7	6	37	7.8
Perth	4182	151	61	90	36.1	76	45	31	6	1	1	...	38	30	18.1	8	58	13.8
Petrolia	2747	108	60	48	39.3	60	26	34	1	3	...	...	25	31	29.8	4	31	11.6
Picton	3429	197	93	104	57.4	93	42	51	6	5	...	...	36	46	27.1	2	38	11.0
Point Edward	1177	10	4	6	8.4	8	5	3	...	...	...	...	5	3	6.7	1	16	13.5
Port Credit	1901	13	5	8	6.8	11	4	7	1	...	...	...	3	7	5.7	...	33	17.3
Port Dalhousie	1590	6	6	....	3.7	10	7	3	2	...	...	...	5	3	6.2	...	11	6.9
Port Dover	1705	35	15	20	20.5	18	8	10	...	1	...	...	8	9	10.5	...	22	12.9
Port Elgin	1321	28	16	12	21.1	20	11	9	1	...	...	...	10	9	15.1	...	13	9.8
Port Hope	4724	134	67	67	28.3	68	42	26	4	1	...	...	38	25	14.3	2	42	8.8
Port Perry	1118	37	15	22	33.0	20	9	11	...	...	...	...	9	11	17.8	...	7	6.2
Prescott	2925	18	12	6	6.1	26	11	15	...	...	1	...	10	15	8.8	1	51	17.4
Rainy River	1326	68	32	36	51.2	18	11	7	2	2	1	1	8	4	13.5	4	19	14.3
Richmond Hill	1317	22	8	14	16.7	16	9	7	...	...	...	...	9	7	12.1	1	23	17.4
Ridgetown	1984	20	12	8	10.0	12	5	7	...	...	...	...	5	7	6.0	2	28	14.1
Rockcliffe Park	1276	1	1	....	0.7	10	3	7	...	...	...	...	3	7	7.8	...	2	1.5
Rockland	2042	45	23	22	22.0	18	10	8	2	1	...	...	8	7	8.8	...	20	9.7
St. Mary's	4017	22	10	12	5.4	45	17	28	...	...	...	...	17	28	11.2	...	33	8.2
Seaforth	1705	97	50	47	56.8	36	23	13	3	2	...	1	20	10	21.1	3	17	9.9
Shelburne	1043	40	24	16	38.3	20	7	13	...	1	...	...	7	12	19.1	2	13	12.4
Sioux Lookout	1901	63	34	29	33.1	21	10	11	2	5	...	...	8	6	11.0	...	34	17.8
Southampton	1441	21	9	12	14.5	19	10	9	...	1	...	...	10	8	13.1	...	9	6.2
Stayner	1043	16	10	6	15.3	15	7	8	...	...	...	...	7	8	14.3	...	25	23.9
Stouffville	1160	49	27	22	42.2	36	18	18	1	...	...	...	17	18	31.0	3	22	18.9
Strathroy	2917	106	54	52	36.3	64	35	29	2	...	2	1	31	28	21.9	10	32	10.9
Sturgeon Falls	4783	198	93	105	41.3	56	29	27	9	9	1	...	19	18	11.7	9	47	9.8
Tavistock	1063	6	4	2	5.6	14	6	8	...	...	...	1	6	7	13.1	...	7	6.5
Tecumseh	2245	48	24	24	21.3	8	4	4	1	...	...	...	3	4	3.5	...	30	13.3
Thessalon	1719	71	32	39	41.3	27	16	11	5	2	1	...	10	9	15.7	5	18	10.4
Tilbury	1980	37	20	17	18.6	8	4	4	1	1	...	...	3	3	4.0	1	32	16.1
Tillsonburg	3945	245	118	127	62.0	89	49	40	4	2	...	2	45	36	22.5	9	95	24.0
Tweed	1228	15	7	8	12.2	16	8	8	...	2	...	1	8	5	13.0	...	13	10.5
Uxbridge	1509	25	17	8	16.5	14	4	10	1	...	...	...	3	10	9.2	...	16	10.6
Vankleek Hill	1474	45	28	17	30.5	27	10	17	...	2	...	1	10	14	18.3	3	19	12.8
Victoria Harbour	1023	17	7	10	16.6	5	4	1	1	...	...	...	3	1	4.8	...	8	7.8
Walkerton	2442	83	39	44	33.9	57	41	16	3	1	1	...	37	15	23.3	3	29	11.8
Wallaceburg	4715	57	32	25	12.0	37	23	14	1	1	...	...	22	13	7.8	1	51	10.8
Waterford	1216	8	4	4	5.7	12	5	7	...	...	...	...	5	7	9.8	1	16	13.1
Wiarton	1723	51	21	30	29.5	27	13	14	1	1	...	...	12	13	15.6	1	32	18.5
Winchester	1040	12	5	7	11.5	21	13	8	...	...	...	...	13	8	20.1	2	19	18.2
Wingham	2123	75	47	28	35.3	30	14	16	2	2	...	...	12	14	14.1	3	23	10.8

Table 6—Births (exclusive of Stillbirths) by Months, Classified as Rural and Urban, in the Province of Ontario, 1938

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Ontario	**65564**	**5225**	**5010**	**5761**	**5554**	**5802**	**5569**	**5823**	**5539**	**5686**	**5348**	**5082**	**5165**
Rural	18746	1538	1441	1660	1630	1630	1631	1659	1544	1647	1478	1404	1484
Urban	46818	3687	3569	4101	3924	4172	3938	4164	3995	4039	3870	3678	3681
Addington	116	8	14	8	10	10	5	11	13	7	12	5	13
Rural	116	8	14	8	10	10	5	11	13	7	12	5	13
Algoma	1067	89	80	77	109	103	97	94	90	97	80	78	73
Rural	268	15	25	20	23	36	27	20	19	22	24	16	21
Urban	799	74	55	57	86	67	70	74	71	75	56	62	52
Sault Ste. Marie, c	625	56	47	46	66	50	44	58	63	52	46	53	44
Blind River, t	103	13	5	7	12	11	13	8	3	14	5	6	6
Thessalon, t	71	5	3	4	8	6	13	8	5	9	5	3	2
Brant	904	68	79	80	83	70	74	77	80	73	68	74	78
Rural	232	23	14	24	23	15	18	23	18	19	17	20	18
Urban	672	45	65	56	60	55	56	54	62	54	51	54	60
Brantford, c	584	38	61	49	55	49	46	44	52	43	46	48	53
Paris, t	88	7	4	7	5	6	10	10	10	11	5	6	7
Bruce	742	63	48	63	67	75	69	56	56	67	62	57	59
Rural	505	50	31	33	44	56	46	37	37	45	37	42	47
Urban	237	13	17	30	23	19	23	19	19	22	25	15	12
Chesley, t	39	4	2	5	3	4	5	2	2	6	1	3	2
Kincardine, t	7	1	1	....	....	....	....	1	1	....	2	1	....
Southampton, t	21	1	1	4	1	....	3	1	1	4	3	....	2
Walkerton, t	83	2	10	8	8	6	7	8	7	6	9	5	7
Wiarton, t	51	1	2	6	5	7	6	5	4	3	10	1	1
Lucknow, vl	8	3	....	2	1	2	....	....	....	....	....	....	....
Port Elgin, vl	28	1	1	5	5	....	2	2	4	3	....	5	....
Carleton	3585	299	283	330	290	313	299	300	320	308	272	282	289
Rural	287	25	27	30	22	24	28	14	25	25	25	22	20
Urban	3298	274	256	300	268	289	271	286	295	283	247	260	269
Ottawa, c	3140	259	244	286	259	273	260	268	283	269	234	248	257
Eastview, t	157	15	12	14	9	11	11	18	12	14	12	12	12
Rockcliffe Park, vl	1	....	....	....	....	....	....	....	....	....	1	....	....
Cochrane	2245	179	182	212	214	199	180	200	176	174	150	192	187
Rural	1038	90	94	99	102	94	81	91	88	78	69	74	78
Urban	1207	89	88	113	112	105	99	109	88	96	81	118	109
Cochrane, t	122	7	9	18	11	10	14	16	7	7	4	10	9
Iroquois Falls, t	67	5	1	10	6	4	5	7	6	4	4	11	4
Kapuskasing, t	145	16	13	6	18	21	12	7	10	7	11	13	11
Timmins, t	873	61	65	79	77	70	68	79	65	78	62	84	85
Dufferin	253	15	18	22	26	29	20	30	23	20	20	15	15
Rural	98	10	9	9	8	8	8	9	6	8	6	7	10
Urban	155	5	9	13	18	21	12	21	17	12	14	8	5
Orangeville, t	115	4	7	9	14	17	8	15	12	10	10	6	3
Shelburne, vl	40	1	2	4	4	4	4	6	5	2	4	2	2
Dundas	289	19	24	26	26	28	18	27	23	33	19	23	23
Rural	214	14	20	21	19	23	11	18	13	24	14	19	18
Urban	75	5	4	5	7	5	7	9	10	9	5	4	5
Chesterville, vl	21	1	....	3	3	1	1	2	3	3	1	1	2
Iroquois, vl	20	1	1	....	2	....	4	2	4	1	2	1	2
Morrisburg, vl	22	1	2	2	2	1	1	4	2	3	1	2	1
Winchester, vl	12	2	1	....	....	3	1	1	1	2	1	....	....
Durham	371	27	32	32	40	33	22	37	40	30	28	27	23
Rural	104	14	5	7	15	8	2	11	16	7	9	5	5
Urban	267	13	27	25	25	25	20	26	24	23	19	22	18
Bowmanville, t	133	3	16	13	15	14	9	12	12	6	11	12	10
Port Hope, t	134	10	11	12	10	11	11	14	12	17	8	10	8
Elgin	703	41	50	66	50	55	63	78	69	61	55	61	54
Rural	264	12	22	23	25	26	18	29	32	22	19	17	19
Urban	439	29	28	43	25	29	45	49	37	39	36	44	35
St. Thomas, c	410	26	28	41	23	26	43	43	35	38	35	39	33
Aylmer, t	29	3	....	2	2	3	2	6	2	1	1	5	2
Essex	3210	282	265	287	246	241	272	277	265	279	281	259	256
Rural	630	54	44	60	58	54	52	59	50	53	46	51	49
Urban	2580	228	221	227	188	187	220	218	215	226	235	208	207
Windsor, c	2220	205	178	198	162	157	181	189	186	198	206	184	176
Amherstburg, t	33	5	3	3	....	1	2	2	4	4	3	2	4
Essex, t	27	2	2	2	1	2	4	3	4	3	1	1	2
Kingsville, t	27	2	3	3	3	1	3	1	....	5	1	4	1
Leamington, t	193	11	20	14	17	14	20	18	17	11	18	14	19
Riverside, t	32	3	5	3	2	4	4	....	1	3	2	2	3
Tecumseh, t	48	....	10	4	3	8	6	5	3	2	4	1	2
Frontenac	1000	77	85	98	82	97	77	88	81	84	71	86	74
Rural	238	15	23	19	28	26	29	14	18	17	16	19	14
Urban	762	62	62	79	54	71	48	74	63	67	55	67	60
Kingston, c	755	60	59	79	54	71	48	73	63	67	55	66	60
Portsmouth, vl	7	2	3	....	....	....	....	1	....	....	....	1	....
Glengarry	298	17	22	22	30	19	27	36	26	28	23	25	23
Rural	243	17	16	18	25	17	20	33	19	17	20	23	18
Urban	55	....	6	4	5	2	7	3	7	11	3	2	5
Alexandria, t	55	....	6	4	5	2	7	3	7	11	3	2	5

Table 6—Births (exclusive of Stillbirths) by Months, Classified as Rural and Urban, in the Province of Ontario, 1938—Continued

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Grenville	185	15	15	12	18	15	16	15	15	11	18	10	25
Rural	119	13	11	9	10	7	11	9	7	9	12	5	16
Urban	66	2	4	3	8	8	5	6	8	2	6	5	9
Prescott, t	18	1	1	1	1	4	....	2	2	1	2	2	1
Cardinal, vl	38	1	3	2	6	4	4	1	5	....	3	2	7
Kemptville, vl	10	....	....	....	1	....	1	3	1	1	1	1	1
Grey	982	63	87	74	95	77	88	85	73	84	80	89	87
Rural	414	36	35	32	35	35	38	36	32	28	36	36	35
Urban	568	27	52	42	60	42	50	49	41	56	44	53	52
Owen Sound, c	364	18	38	32	47	19	31	29	25	37	23	29	36
Durham, t	53	4	6	4	....	8	4	4	2	3	6	6	6
Hanover, t	66	4	3	3	4	3	6	8	5	11	7	6	5
Meaford, t	85	1	5	3	9	12	9	8	8	5	8	12	5
Haldimand	297	17	20	30	22	19	28	37	31	34	20	13	26
Rural	148	9	11	10	13	12	13	15	19	17	10	6	13
Urban	149	8	9	20	9	7	15	22	12	17	10	7	13
Dunnville, t	102	6	5	13	5	7	12	18	6	10	6	5	9
Caledonia, vl	14	....	2	1	1	....	1	2	2	4	....	....	1
Hagersville, vl	33	2	2	6	3	....	2	2	4	3	4	2	3
Haliburton	172	21	19	15	10	19	18	21	10	12	10	10	7
Rural	172	21	19	15	10	19	18	21	10	12	10	10	7
Halton	265	13	20	19	24	26	29	31	19	23	17	26	18
Rural	134	8	10	11	9	13	15	19	9	11	7	12	10
Urban	131	5	10	8	15	13	14	12	10	12	10	14	8
Burlington, t	27	....	4	....	1	2	4	2	4	1	2	4	3
Georgetown, t	14	....	1	....	4	....	1	5	1	....	....	2	....
Milton, t	24	3	1	....	2	3	4	2	1	2	2	2	2
Oakville, t	38	....	3	3	4	5	4	1	4	6	3	3	2
Acton, vl	28	2	1	5	4	3	1	2	....	3	3	3	1
Hastings	1312	96	95	126	97	115	103	107	130	117	95	122	109
Rural	627	39	52	60	56	47	44	54	68	50	40	67	50
Urban	685	57	43	66	41	68	59	53	62	67	55	55	59
Belleville, c	493	45	34	51	29	43	35	36	54	52	38	40	36
Deseronto, t	10	2	....	....	....	....	1	1	....	....	....	5	1
Trenton, t	151	9	6	13	11	21	21	14	6	12	13	8	17
Madoc, vl	16	....	2	....	1	2	1	....	2	3	2	....	3
Tweed, vl	15	1	1	2	....	2	1	2	....	....	2	2	2
Huron	758	65	54	66	62	81	62	70	58	75	51	54	60
Rural	372	34	29	34	34	40	34	31	30	34	23	19	30
Urban	386	31	25	32	28	41	28	39	28	41	28	35	30
Clinton, t	76	4	7	8	7	9	1	12	5	7	5	5	6
Goderich, t	99	8	4	6	5	10	12	4	6	13	6	14	11
Seaforth, t	97	6	7	9	8	12	8	10	6	11	6	8	6
Wingham, t	75	8	4	7	6	7	5	10	7	6	6	5	4
Exeter, vl	39	5	3	2	2	3	2	3	4	4	5	3	3
Kenora, including Patricia	621	55	48	43	56	58	60	76	55	34	47	36	53
Rural	133	8	16	10	18	12	11	13	11	6	12	6	10
Urban	488	47	32	33	38	46	49	63	44	28	35	30	43
Dryden, t	136	9	8	6	11	16	17	21	10	6	10	4	18
Keewatin, t	4	....	....	1	....	1	....	1	....	....	....	....	1
Kenora, t	285	31	21	22	16	24	24	32	31	20	22	24	18
Sioux Lookout, t	63	7	3	4	11	5	8	9	3	2	3	2	6
Kent	1339	109	120	101	111	109	100	113	113	121	119	111	112
Rural	404	32	39	37	24	30	29	33	31	43	35	33	38
Urban	935	77	81	64	87	79	71	80	82	78	84	78	74
Chatham, c	764	57	69	51	67	64	57	65	70	69	64	71	60
Blenheim, t	25	4	....	3	3	....	1	2	4	....	5	3	....
Dresden, t	32	4	1	....	5	4	3	2	1	1	1	3	7
Ridgetown, t	20	1	2	2	1	3	3	2	....	....	5	....	1
Tilbury, t	37	5	3	5	5	4	1	5	2	3	3	....	1
Wallaceburg, t	57	6	6	3	6	4	6	4	5	5	6	1	5
Lambton	996	69	66	115	87	81	80	75	86	88	98	69	82
Rural	372	22	25	46	36	36	26	24	23	39	39	30	26
Urban	624	47	41	69	51	45	54	51	63	49	59	39	56
Sarnia, c	489	37	35	54	39	31	43	39	46	42	45	32	46
Forest, t	17	....	....	1	....	6	4	3	1	1	....	....	1
Petrolia, t	108	9	6	13	12	6	7	9	15	6	11	6	8
Point Edward, vl	10	1	....	1	....	2	....	....	1	....	3	1	1
Lanark	612	52	48	60	48	51	48	53	51	49	55	44	53
Rural	136	18	11	15	10	15	6	9	11	12	11	8	10
Urban	476	34	37	45	38	36	42	44	40	37	44	36	43
Almonte, t	116	7	5	12	8	10	9	11	7	11	9	12	15
Carleton Place, t	40	3	8	5	3	3	1	1	4	4	3	3	2
Perth, t	151	10	11	16	12	17	16	14	14	9	9	12	11
Smiths Falls, t	169	14	13	12	15	6	16	18	15	13	23	9	15
Leeds	708	67	52	71	47	61	54	57	67	65	56	59	52
Rural	271	20	22	30	15	21	20	20	25	30	19	26	23
Urban	437	47	30	41	32	40	34	37	42	35	37	33	29
Brockville, t	344	42	24	34	26	30	28	28	30	27	32	23	20
Gananoque, t	93	5	6	7	6	10	6	9	12	8	5	10	9
Lennox	119	10	9	15	14	10	8	13	10	5	5	9	11
Rural	81	6	5	13	9	7	5	8	5	3	4	6	10
Urban	38	4	4	2	5	3	3	5	5	2	1	3	1
Napanee, t	38	4	4	2	5	3	3	5	5	2	1	3	1

Table 6—Births (exclusive of Stillbirths) by Months, Classified as Rural and Urban, in the Province of Ontario, 1938—Continued

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Lincoln	947	84	76	83	74	79	80	88	77	73	81	71	81
Rural	175	16	10	17	11	18	11	13	19	17	18	11	14
Urban	772	68	66	66	63	61	69	75	58	56	63	60	67
St. Catharines, c	641	51	60	56	55	53	62	58	46	45	50	52	53
Grimsby, t	53	4	3	2	3	2	5	9	4	5	5	3	8
Merritton, t	16	4	2	....	1	....	1	....	1	....	....	3	4
Niagara, t	33	4	1	3	3	5	....	5	3	3	3	2	1
Beamsville, vl	23	5	....	4	1	1	1	2	4	2	2	....	1
Port Dalhouse, vl	6	....	....	1	....	....	....	1	....	1	3	....	....
Manitoulin	276	25	13	30	25	17	20	26	27	34	26	16	17
Rural	257	24	12	26	25	16	16	23	27	32	26	14	16
Urban	19	1	1	4	....	1	4	3	....	2	....	2	1
Little Current, t	19	1	1	4	....	1	4	3	....	2	....	2	1
Middlesex	2053	191	144	159	180	192	170	182	168	178	150	167	172
Rural	353	34	23	36	34	22	35	41	29	25	25	24	25
Urban	1700	157	121	123	146	170	135	141	139	153	125	143	147
London, c	1587	150	116	115	133	160	124	137	123	142	120	131	136
Parkhill, t	7	1	....	1	....	1	1	....	1	....	1	....	1
Strathroy, t	106	6	5	7	13	9	10	4	15	11	4	12	10
Muskoka	416	35	24	34	53	36	29	30	33	33	36	33	40
Rural	184	21	9	16	23	15	17	10	15	8	12	17	21
Urban	232	14	15	18	30	21	12	20	18	25	24	16	19
Bracebridge, t	96	4	7	5	17	7	7	9	4	9	14	5	8
Gravenhurst, t	51	2	2	7	4	6	2	5	6	5	5	6	1
Huntsville, t	85	8	6	6	9	8	3	6	8	11	5	5	10
Nipissing	1136	88	80	101	99	106	91	101	100	90	97	82	101
Rural	430	39	31	35	44	38	41	35	24	41	32	30	40
Urban	706	49	49	66	55	68	50	66	76	49	65	52	61
North Bay, c	416	25	34	36	34	33	31	40	42	37	39	35	30
Cache Bay, t	22	3	1	1	2	5	3	....	2	1	1	....	3
Mattawa, t	70	6	3	8	4	11	1	3	11	2	4	8	9
Sturgeon Falls, t	198	15	11	21	15	19	15	23	21	9	21	9	19
Norfolk	690	55	46	66	55	65	54	54	54	61	54	57	69
Rural	280	24	17	32	21	26	26	23	22	24	20	18	27
Urban	410	31	29	34	34	39	28	31	32	37	34	39	42
Simcoe, t	344	27	24	28	29	33	23	28	25	31	28	33	35
Delhi, vl	23	....	3	....	1	3	2	2	2	2	1	4	3
Port Dover, vl	35	4	2	3	3	3	2	1	5	3	4	1	4
Waterford, vl	8	....	....	3	1	....	1	....	....	1	1	1	....
Northumberland	503	42	38	46	52	54	38	36	42	51	27	46	31
Rural	259	22	18	24	24	30	21	14	22	30	16	26	12
Urban	244	20	20	22	28	24	17	22	20	21	11	20	19
Campbellford, t	74	3	7	4	7	10	4	8	7	10	2	7	5
Cobourg, t	147	13	13	17	18	11	13	12	12	10	7	10	11
Brighton, vl	12	2	....	1	1	1	....	....	1	1	2	2	1
Colborne, vl	11	2	....	....	2	2	....	2	....	....	....	1	2
Ontario	944	62	82	93	81	84	91	83	78	75	90	55	70
Rural	282	18	16	20	21	22	30	25	26	31	30	15	28
Urban	662	44	66	73	60	62	61	58	52	44	60	40	42
Oshawa, c	582	39	59	67	55	53	53	50	46	38	56	33	33
Uxbridge, t	25	2	1	1	3	4	3	4	1	1	1	2	2
Whithy, t	18	2	4	1	....	2	1	....	4	1	1	1	1
Port Perry, vl	37	1	2	4	2	3	4	4	1	4	2	4	6
Oxford	950	73	53	72	67	81	68	88	91	89	102	79	87
Rural	221	17	11	19	22	24	18	19	17	18	20	14	22
Urban	729	56	42	53	45	57	50	69	74	71	82	65	65
Woodstock, c	283	24	21	20	16	17	20	21	29	30	35	24	26
Ingersoll, t	139	8	8	9	14	13	11	15	15	6	21	11	8
Tillsonburg, t	245	18	10	18	11	23	15	24	26	31	23	23	23
Norwich, vl	56	5	3	5	4	3	2	9	4	4	3	6	8
Tavistock, vl	6	1	....	1	....	1	2	....	....	....	....	1	....
Parry Sound	611	43	35	45	49	48	52	58	66	51	54	55	55
Rural	393	30	23	26	33	32	35	34	45	29	34	35	37
Urban	218	13	12	19	16	16	17	24	21	22	20	20	18
Parry Sound, t	218	13	12	19	16	16	17	24	21	22	20	20	18
Peel	384	36	30	23	27	33	33	33	37	37	34	38	23
Rural	139	14	5	8	9	12	13	12	13	15	10	19	9
Urban	245	22	25	15	18	21	20	21	24	22	24	19	14
Brampton, t	232	22	23	14	18	21	20	20	21	20	24	17	12
Port Credit, vl	13	....	2	1	....	....	....	1	3	2	....	2	2
Perth	821	76	50	66	62	76	77	77	72	70	67	64	64
Rural	260	29	14	21	10	23	25	24	24	20	21	17	32
Urban	561	47	36	45	52	53	52	53	48	50	46	47	32
Stratford, c	425	36	26	31	35	39	42	45	34	37	34	39	27
Listowell, t	85	4	4	5	17	11	7	6	8	9	5	6	3
Mitchell, t	18	1	3	4	....	1	....	....	2	2	3	1	1
St. Mary's, t	22	5	2	4	....	2	2	2	2	1	2	....	....
Milverton, vl	11	1	1	1	....	....	1	....	2	1	2	1	1
Peterborough	915	77	67	81	82	86	82	76	78	60	76	67	83
Rural	175	13	19	17	19	12	16	17	18	10	12	11	11
Urban	740	64	48	64	63	74	66	59	60	50	64	56	72
Peterborough, c	700	58	46	62	60	70	63	58	56	46	60	51	70
Havelock, vl	36	6	1	2	3	4	3	1	4	2	3	5	2
Lakefield, vl	4	....	1	....	....	....	....	....	....	2	1	....	....

Table 6—Births (exclusive of Stillbirths) by Months, Classified as Rural and Urban, in the Province of Ontario, 1938—Continued

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Prescott	697	54	36	55	53	81	67	69	59	76	55	48	44
Rural	411	29	24	35	38	51	31	47	31	43	25	27	30
Urban	286	25	12	20	15	30	36	22	28	33	30	21	14
Hawkesbury, t	213	20	9	14	13	21	30	14	22	23	21	19	7
Vankleek Hill, t	45	3	1	5	2	5	3	6	4	5	6	1	4
L'Orignal, vl	28	2	2	1	....	4	3	2	2	5	3	1	3
Prince Edward	292	21	30	24	34	21	23	25	26	28	19	20	21
Rural	95	7	10	6	11	7	12	12	5	7	5	6	7
Urban	197	14	20	18	23	14	11	13	21	21	14	14	14
Picton, t	197	14	20	18	23	14	11	13	21	21	14	14	14
Rainy River	454	47	29	58	40	40	47	36	37	42	21	25	32
Rural	226	23	13	34	24	17	25	17	18	19	11	11	14
Urban	228	24	16	24	16	23	22	19	19	23	10	14	18
Fort Frances, t	160	16	12	21	13	15	15	11	14	14	6	12	11
Rainy River, t	68	8	4	3	3	8	7	8	5	9	4	2	7
Renfrew	1018	91	81	86	94	100	108	87	81	86	64	67	73
Rural	492	51	40	41	46	47	53	40	37	43	36	30	28
Urban	526	40	41	45	48	53	55	47	44	43	28	37	45
Arnprior, t	62	1	7	6	8	11	4	2	1	8	3	6	5
Pembroke, t	260	25	20	19	22	25	28	24	24	22	13	20	18
Renfrew, t	151	10	11	14	11	14	18	14	16	9	10	9	15
Barry's Bay, vl	34	1	2	5	6	3	2	5	2	4	1	1	2
Eganville, vl	19	3	1	1	1	....	3	2	1	....	1	1	5
Russell	408	40	19	34	49	36	37	34	34	28	34	34	29
Rural	363	35	17	30	46	31	37	31	28	26	27	29	26
Urban	45	5	2	4	3	5	....	3	6	2	7	5	3
Rockland, t	45	5	2	4	3	5	....	3	6	2	7	5	3
Simcoe	1578	121	125	132	137	138	141	158	139	147	133	110	97
Rural	402	39	30	37	33	32	34	40	32	36	33	27	29
Urban	1176	82	95	95	104	106	107	118	107	111	100	83	68
Alliston, t	97	4	10	8	7	8	8	10	9	12	9	8	4
Barrie, t	228	13	26	22	19	19	17	28	19	25	14	13	13
Collingwood, t	176	12	6	13	16	12	15	25	17	18	16	13	13
Midland, t	192	15	10	11	19	21	13	19	18	21	19	16	10
Orillia, t	305	18	29	25	28	21	36	20	38	24	28	22	16
Penetanguishene, t	145	18	12	15	12	23	14	13	4	8	9	8	9
Stayner, t	16	1	2	....	1	....	2	2	2	1	2	1	2
Victoria Harbour, vl	17	1	....	1	2	2	2	1	....	2	3	2	1
Stormont	1023	81	72	86	69	102	86	91	88	90	71	105	82
Rural	411	29	31	37	31	39	30	43	34	39	33	40	25
Urban	612	52	41	49	38	63	56	48	54	51	38	65	57
Cornwall, t	612	52	41	49	38	63	56	48	54	51	38	65	57
Sudbury	2418	173	196	209	203	236	231	179	215	203	185	184	204
Rural	980	70	93	78	84	83	92	73	82	82	74	80	89
Urban	1438	103	103	131	119	153	139	106	133	121	111	104	115
Sudbury, c	1325	95	89	117	113	141	130	97	124	116	105	95	103
Capreol, t	23	1	4	2	1	3	3	3	1	2	....	....	3
Coniston, t	49	3	8	4	2	7	5	3	4	....	5	4	4
Coppercliff, t	41	4	2	8	3	2	1	3	4	3	1	5	5
Thunder Bay	1446	100	130	114	113	131	119	116	135	127	122	117	122
Rural	264	22	23	25	20	29	21	18	17	19	22	24	24
Urban	1182	78	107	89	93	102	98	98	118	108	100	93	98
Fort William, c	533	38	46	47	46	43	42	42	50	63	40	38	38
Port Arthur, c	649	40	61	42	47	59	56	56	68	45	60	55	60
Timiskaming	1411	116	95	132	115	104	110	148	119	134	141	93	104
Rural	383	25	27	34	33	38	33	36	39	38	33	24	23
Urban	1028	91	68	98	82	66	77	112	80	96	108	69	81
Cobalt, t	79	9	6	3	6	4	4	6	10	8	13	5	5
Englehart, t	98	6	10	7	9	6	13	8	7	15	5	4	8
Haileybury, t	61	2	3	7	5	6	6	7	8	5	5	4	3
New Liskeard, t	66	5	5	12	7	3	3	9	1	3	9	4	5
Kirkland Lake	724	69	44	69	55	47	51	82	54	65	76	52	60
Victoria	422	25	28	30	39	39	42	32	41	38	35	42	31
Rural	180	14	14	16	15	9	21	13	19	13	15	16	15
Urban	242	11	14	14	24	30	21	19	22	25	20	26	16
Lindsay, t	242	11	14	14	24	30	21	19	22	25	20	26	16
Waterloo	1623	132	148	142	159	163	144	146	110	134	115	110	120
Rural	341	33	27	28	33	29	38	32	19	31	27	21	23
Urban	1282	99	121	114	126	134	106	114	91	103	88	89	97
Galt, c	321	17	32	33	27	26	29	27	21	23	23	29	34
Kitchener, c	796	69	72	69	88	89	61	75	57	62	51	48	55
Elmira, t	18	3	3	1	2	2	1	....	1	2	....	2	1
Hespeler, t	19	1	1	2	2	2	1	....	3	1	2	3	1
Preston, t	66	4	6	2	2	13	9	4	3	9	4	5	5
Waterloo, t	48	4	5	7	4	1	3	7	5	4	7	....	1
New Hamburg, vl	14	1	2	....	1	1	2	1	1	2	1	2	....
Welland	1393	107	90	110	116	128	110	133	100	135	147	106	111
Rural	311	22	10	28	26	25	29	32	22	38	38	18	23
Urban	1082	85	80	82	90	103	81	101	78	97	109	88	88
Niagara Falls, c	421	38	29	26	31	33	29	36	32	43	42	41	41
Welland, c	364	31	25	32	31	36	29	37	28	28	35	25	27
Fort Erie, t	101	3	9	7	6	11	9	10	8	9	13	7	9
Port Colborne, t	83	5	6	6	9	10	5	10	2	9	6	9	6
Thorold, t	64	7	6	6	5	11	5	5	3	5	5	2	4
Chippawa, vl	7	....	....	1	....	....	1	1	2	....	1	1	....
Humberstone, vl	42	1	5	4	8	2	3	2	3	3	7	3	1

Table 6—Births (exclusive of Stillbirths) by Months, Classified as Rural and Urban, in the Province of Ontario, 1938—Continued

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Wellington	1051	82	77	96	87	85	93	97	86	101	70	86	91
Rural	510	32	38	51	43	35	44	49	47	52	36	39	44
Urban	541	50	39	45	44	50	49	48	39	49	34	47	47
Guelph, c	331	31	29	24	23	29	30	36	26	25	23	31	24
Harriston, t	20	1	1	1	3	3	2	.....	1	2	.....	3	3
Mount Forest, t	49	5	2	7	4	5	5	2	5	6	1	4	3
Palmerston, t	44	5	3	6	3	3	5	3	3	3	3	1	6
Arthur, vl	19	1	1	2	3	1	1	.....	2	1	1	3	3
Elora, vl	7	.....	.....	.....	2	1	.....	.....	.....	2	1	1	....
Fergus, vl	71	7	3	5	6	8	6	7	2	10	5	4	8
Wentworth	3210	262	223	279	248	256	293	302	310	285	271	240	241
Rural	197	16	11	10	19	17	25	17	18	20	15	18	11
Urban	3013	246	212	269	229	239	268	285	292	265	256	222	230
Hamilton, c	2989	245	209	267	229	236	267	284	290	264	252	218	228
Dundas, t	24	1	3	2	.....	3	1	1	2	1	4	4	2
York	13325	1050	1058	1205	1128	1191	1116	1174	1056	1151	1159	1029	1008
Rural	2152	177	196	180	151	160	187	208	160	203	200	159	171
Urban	11173	873	862	1025	977	1031	929	966	896	948	959	870	837
Toronto, c	10514	811	802	964	927	976	875	927	840	882	910	824	776
Aurora, t	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Long Branch, t	38	2	2	3	1	5	1	5	4	2	8	2	3
Mimico, t	111	12	13	9	10	10	9	5	10	8	10	7	8
Newmarket, t	219	19	25	23	14	22	15	12	14	22	18	14	21
New Toronto, t	67	9	9	6	4	4	6	4	6	9	1	.....	9
Weston, t	110	9	3	12	9	3	16	3	11	19	4	13	8
Forest Hill, vl	4	.....	1	.....	1	.....	1	.....	1	.....	.....	.....	.....
Markham, vl	24	2	2	2	3	3	.....	2	2	.....	1	2	5
Richmond Hill, vl	22	1	1	.....	2	1	1	3	5	2	2	2	2
Stouffville, vl	49	7	4	5	3	7	4	4	3	2	4	3	3
Swansea	14	1	.....	1	2	.....	1	1	.....	2	1	3	2

Table 7—Total Live Births and Live Births in Institutions, Showing the Number of Mothers Non-resident in the Province of Ontario, 1938

	ALL LIVE BIRTHS		IN INSTITUTIONS	
	Total	Births to mothers non-resident in Province	Total	Births to mothers non-resident in Province
Total for the Province	65,564	316	35,372	258

Table 8—Births (exclusive of Stillbirths) to Resident and Non-Resident Mothers, and Births in Institutions, in the Cities, Towns, and Villages of Ontario of 5,000 Population and over, 1938.

Cities, Towns, and Villages	All Births				Births in Institutions				Births Elsewhere Than in Institutions			
	Total	Resident mothers	Mothers non-resident in city, town, or village where birth occurred and		Total	Resident mothers	Mothers non-resident in city, town, or village where birth occurred and		Total	Resident mothers	Mothers non-resident in city, town, or village where birth occurred and	
			Resident in Province	Non-resident in Province			Resident in Province	Non-resident in Province			Resident in Province	Non-resident in Province
Cities:												
Belleville	493	250	241	2	411	175	234	2	82	75	7	......
Brantford	584	479	105	......	437	336	101	......	147	143	4	......
Chatham	764	333	431	......	626	211	415	......	138	122	16	......
Fort William	533	379	148	6	428	282	143	3	105	97	5	3
Galt	321	237	84	......	224	157	67	......	97	80	17	......
Guelph	331	227	104	......	249	147	102	......	82	80	2	......
Hamilton	2,989	2,528	459	2	2,394	1,957	435	2	595	571	24	......
Kingston	755	471	282	2	686	409	275	2	69	62	7	......
Kitchener	796	557	238	1	621	386	234	1	175	171	4	......
London	1,587	1,178	406	3	1,335	943	389	3	252	235	17	......
Niagara Falls	421	331	90	......	313	235	78	......	108	96	12	......
North Bay	416	316	94	6	247	159	83	5	169	157	11	1
Oshawa	582	480	102	......	397	299	98	......	185	181	4	......
Ottawa	3,140	2,460	549	131	2,644	1,974	543	127	496	486	6	4
Owen Sound	364	253	111	......	223	141	82	......	141	112	29	......
Peterborough	700	508	192	......	595	405	190	......	105	103	2	......
Port Arthur	649	420	229	......	620	393	227	......	29	27	2	......
St. Catharines	641	429	211	1	422	258	163	1	219	171	48	......
St. Thomas	410	233	176	1	382	207	174	1	28	26	2	......
Sarnia	489	359	129	1	396	267	128	1	93	92	1	......
Sault Ste. Marie	625	509	114	2	376	287	88	1	249	222	26	1
Stratford	425	246	179	......	368	189	179	......	57	57	......	......
Sudbury	1,325	1,038	286	1	804	547	256	1	521	491	30	......
Toronto	10,514	8,291	2,198	25	8,510	6343	2,142	25	2,004	1,948	56	......
Welland	364	198	166	......	268	103	165	......	96	95	1	......
Windsor	2,220	1,920	298	2	1,353	1,070	282	1	867	850	16	1
Woodstock	283	181	101	1	240	141	98	1	43	40	3	......
Towns:												
Barrie	228	135	92	1	172	89	82	1	56	46	10	......
Brampton	232	109	123	......	217	94	123	......	15	15	......	......
Brockville	344	205	135	4	330	193	133	4	14	12	2	......
Cobourg	147	77	70	......	123	54	69	......	24	23	1	......
Collingwood	176	91	84	1	98	39	58	1	78	52	26	......
Cornwall	612	407	189	16	488	283	189	16	124	124	......	......
Eastview	157	154	3	......	......	......	......	......	157	154	3	......
Fort Erie	101	72	29	......	82	54	28	......	19	18	1	......
Fort Francis	160	125	34	1	27	19	8	......	133	106	26	1
Hawkesbury	213	189	8	16	37	17	8	12	176	172	......	4
Ingersoll	139	102	37	......	93	61	32	......	46	41	5	......
Kenora	285	180	102	3	275	171	101	3	10	9	1	......
Leamington	193	122	70	1	111	58	53	......	82	64	17	1
Lindsay	242	113	129	......	205	77	128	......	37	36	1	......
Midland	192	117	75	......	124	57	67	......	68	60	8	......
Mimico	111	57	54	......	70	20	50	......	41	37	4	......
New Toronto	67	64	3	......	......	......	......	......	67	64	3	......
Orillia	305	167	137	1	225	100	124	1	80	67	13	......
Pembroke	260	150	97	13	167	70	85	12	93	80	12	1
Port Colborne	83	81	2	......	......	......	......	......	83	81	2	......
Preston	66	58	8	......	......	......	......	......	66	58	8	......
Renfrew	151	90	60	1	115	56	58	1	36	34	2	......
Riverside	32	31	1	......	......	......	......	......	32	31	1	......
Simcoe	344	122	221	1	295	75	220	......	49	47	1	1
Smiths Falls	169	126	43	......	148	106	42	......	21	20	1	......
Thorold	64	49	15	......	28	18	10	......	36	31	5	......
Timmins	873	799	70	4	266	211	55	......	607	588	15	4
Trenton	151	145	6	......	......	......	......	......	151	145	6	......
Waterloo	48	45	3	......	......	......	......	......	48	45	3	......
Weston	110	49	61	......	......	......	......	......	110	49	61	......
Whitby	18	18	......	......	......	......	......	......	18	18	......	......
Villages:												
Forest Hill	4	4	......	......	......	......	......	......	4	4	......	......
Kirkland Lake	724	642	74	8	398	319	71	8	326	323	3	......
Swansea	14	14	......	......	......	......	......	......	14	14	......	......

Table 9—Births (exclusive of Stillbirths) Classified as Legitimate or Illegitimate and as Single or Plural by Sex, for Cities, Towns, and Villages of 5,000 and over, 1938

Province, Cities, Towns, and Villages	Total births			Legitimate			Illegitimate			Single births			Twin births			Triplets		
	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total
Total for the Province	**33605**	**31959**	**65564**	**32022**	**30481**	**62503**	**1583**	**1478**	**3061**	**32972**	**31348**	**64320**	**627**	**599**	**613**	**6**	**12**	**6**
Cities, Towns, and Villages of 5,000 and over:																		
Barrie	107	121	228	103	112	215	4	9	13	107	113	220	......	8	4	......	......	......
Belleville	235	258	493	226	246	472	9	12	21	232	255	487	3	3	3	......	......	......
Brampton	112	120	232	109	118	227	3	2	5	108	118	226	4	2	3	......	......	......
Brantford	304	280	584	290	267	557	14	13	27	300	272	572	4	8	6	......	......	......
Brockville	189	155	344	184	145	329	5	10	15	183	151	334	6	4	5	......	......	......
Chatham	409	355	764	396	347	743	13	8	21	401	349	750	8	6	7	......	......	......
Cobourg	75	72	147	68	69	137	7	3	10	75	72	147	......	......	......	......	......	......
Collingwood	97	79	176	94	75	169	3	4	7	92	73	165	* 5	6	6	......	......	......
Cornwall	319	293	612	304	282	586	15	11	26	307	289	596	12	4	8	......	......	......
Eastview	76	81	157	75	80	155	1	1	2	76	79	155	......	2	1	......	......	......
Forest Hill	3	1	4	3	1	4	......	......	......	3	1	4	......	......	......	......	......	......
Fort Erie	53	48	101	50	47	97	3	1	4	53	48	101	......	......	......	......	......	......
Fort Francis	89	71	160	84	70	154	5	1	6	89	71	160	......	......	......	......	......	......
Fort William	274	259	533	262	238	500	12	21	33	264	253	517	10	6	8	......	......	......
Galt	157	164	321	149	154	303	8	10	18	156	159	315	1	5	3	......	......	......
Guelph	184	147	331	179	146	325	5	1	6	179	140	319	5	7	6	......	......	......
Hamilton	1510	1479	2989	1425	1395	2820	85	84	169	1478	1453	2931	32	26	29	......	......	......
Hawkesbury	113	100	213	108	96	204	5	4	9	111	100	211	2	......	1	......	......	......
Ingersoll	68	71	139	67	70	137	1	1	2	68	71	139	......	......	......	......	......	......
Kenora	147	138	285	143	134	277	4	4	8	144	137	281	3	1	2	......	......	......
Kingston	406	349	755	373	325	698	33	24	57	394	343	737	12	6	9	......	......	......
Kirkland Lake	360	364	724	339	349	688	21	15	36	351	355	706	9	9	9	......	......	......
Kitchener	415	381	796	399	354	753	16	27	43	404	372	776	11	9	10	......	......	......
Leamington	112	81	193	109	78	187	3	3	6	110	81	191	2	......	1	......	......	......
Lindsay	134	108	242	127	101	228	7	7	14	133	107	240	1	1	1	......	......	......
London	821	766	1587	751	700	1451	70	66	136	810	743	1553	11	23	17	......	......	......
Midland	101	91	192	96	85	181	5	6	11	99	91	190	2	......	1	......	......	......
Mimico	55	56	111	55	56	111	......	......	......	53	56	109	2	......	1	......	......	......
New Toronto	41	26	67	40	26	66	1	......	1	41	26	67	......	......	......	......	......	......
Niagara Falls	218	203	421	207	199	406	11	4	15	216	201	417	2	2	2	......	......	......
North Bay	209	207	416	195	198	393	14	9	23	209	201	410	......	6	3	......	......	......
Orillia	158	147	305	145	139	284	13	8	21	156	143	299	2	4	3	......	......	......
Oshawa	326	256	582	315	250	565	11	6	17	316	254	570	10	2	6	......	......	......
Ottawa	1555	1585	3140	1427	1463	2890	128	122	250	1524	1545	3069	31	37	34	......	3	1
Owen Sound	162	202	364	154	196	350	8	6	14	154	196	350	8	6	7	......	......	......
Pembroke	134	126	260	129	119	248	5	7	12	130	126	256	4	......	2	......	......	......
Peterborough	378	322	700	360	310	670	18	12	30	370	306	676	8	16	12	......	......	......
Port Arthur	313	336	649	297	308	605	16	28	44	305	327	632	7	7	7	1	2	1
Port Colborne	48	35	83	46	33	79	2	2	4	48	35	83	......	......	......	......	......	......
Preston	41	25	66	40	25	65	1	......	1	41	25	66	......	......	......	......	......	......
Renfrew	71	80	151	70	78	148	1	2	3	69	78	147	2	2	2	......	......	......
Riverside	22	10	32	22	9	31	......	1	1	22	10	32	......	......	......	......	......	......
St. Catharines	327	314	641	318	307	625	9	7	16	324	313	637	3	1	2	......	......	......
St. Thomas	213	197	410	207	193	400	6	4	10	211	193	404	2	4	3	......	......	......
Sarnia	246	243	489	236	228	464	10	15	25	240	235	475	6	8	7	......	......	......

Sault Ste. Marie	327	298	625	312	284	596	15	14	29	316	295	611	11	3	7	......	......	......
Simcoe	179	165	344	173	159	332	6	6	12	174	164	338	5	1	3	......	......	......
Smith's Falls	97	72	169	92	69	161	5	3	8	91	72	163	6	......	3	......	......	......
Stratford	222	203	425	216	193	409	6	10	16	222	201	423	......	2	1	......	......	......
Sudbury	715	610	1325	677	573	1250	38	37	75	709	600	1309	6	10	8	......	......	......
Swansea	9	5	14	9	5	14	......	......	......	9	5	14	......	......	......	......	......	......
Thorold	29	35	64	25	33	58	4	2	6	29	35	64	......	......	......	......	......	......
Timmins	447	426	873	432	407	839	15	19	34	442	423	865	5	3	4	......	......	......
Toronto	5460	5054	10514	5059	4690	9749	401	364	765	5384	4970	10354	75	79	77	1	5	2
Trenton	76	75	151	73	74	147	3	1	4	74	73	147	2	2	2	......	......	......
Waterloo	26	22	48	26	21	47	......	1	1	26	22	48	......	......	......	......	......	......
Welland	186	178	364	184	168	352	2	10	12	182	176	358	4	2	3	......	......	......
Weston	44	66	110	43	66	109	1	......	1	44	66	110	......	......	......	......	......	......
Whitby	10	8	18	10	7	17	......	1	1	10	8	18	......	......	......	......	......	......
Windsor	1147	1073	2220	1072	1026	2098	75	47	122	1120	1056	2176	27	17	22	......	......	......
Woodstock	139	144	283	135	135	270	4	9	13	133	142	275	6	2	4	......	......	......

---

*In the case of one twin confinement, one child (female) was born in the rural part of Grey County, the other child in Collingwood town.

Table 10—Births (exclusive of Stillbirths) Classified

Age of Father	Total	AGE OF																
		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Under 16 years	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16 years	3	...	...	...	1	...	1	...	...	...	1	...	...	...	...	...	...	...
17 "	20	...	...	1	...	2	8	3	2	3	...	1	...	...	...	...	...	...
18 "	113	...	...	...	3	7	27	29	24	9	5	3	4	1	...	1	...	...
19 "	295	...	...	...	6	19	42	95	65	22	23	8	5	6	1	...	...	2
20 "	645	...	...	...	3	23	54	139	130	120	83	52	13	12	9	1	2	2
21 "	1,172	...	...	...	7	37	77	206	210	191	169	112	72	43	26	6	6	2
22 "	1,761	...	1	3	3	27	85	181	242	291	288	269	156	85	54	35	16	12
23 "	2,453	...	...	...	2	19	83	177	268	364	386	372	322	190	113	65	32	18
24 "	2,820	...	...	...	4	22	62	142	220	308	401	438	397	316	206	133	60	42
25 "	3,142	...	...	...	3	14	48	143	208	289	351	416	458	379	353	197	106	78
26 "	3,341	...	...	...	1	14	39	76	162	258	281	366	435	454	430	314	185	110
27 "	3,549	...	...	...	...	8	26	82	120	171	277	343	417	427	442	389	308	213
28 "	3,779	...	...	1	1	13	15	62	112	150	227	283	362	414	439	418	391	335
29 "	3,711	...	...	...	1	5	21	39	85	122	169	232	290	356	387	399	399	390
30 "	3,601	...	...	...	1	5	12	28	49	103	127	183	218	275	320	361	360	417
31 "	3,236	...	...	...	...	2	7	22	40	72	111	116	171	190	257	325	295	332
32 "	3,236	...	...	1	...	2	8	25	36	51	89	117	154	190	206	234	277	303
33 "	2,963	...	...	...	...	...	4	12	30	36	55	76	118	144	171	193	211	291
34 "	2,747	...	...	...	...	1	6	11	19	32	52	56	72	129	117	143	193	218
35 "	2,506	...	...	...	...	2	6	10	14	19	30	46	67	89	101	118	120	175
36 "	2,121	...	...	...	...	...	1	12	14	10	27	34	42	47	68	101	108	133
37 "	2,092	...	...	...	...	...	5	4	11	16	14	23	33	39	55	89	116	114
38 "	2,066	...	...	...	...	...	2	1	6	13	21	26	31	46	52	67	78	104
39 "	1,576	...	...	...	...	1	1	2	3	6	6	11	16	24	32	52	45	55
40 "	1,473	...	...	...	...	...	1	2	7	5	6	13	7	27	33	27	35	51
41 "	1,135	...	...	...	...	...	...	1	1	3	4	6	11	16	11	21	16	38
42 "	1,204	...	...	...	...	...	1	...	1	7	4	9	7	14	13	26	21	43
43 "	929	...	...	...	...	...	...	...	1	4	5	1	10	12	12	22	18	25
44 "	846	...	...	...	...	...	...	...	1	2	4	7	6	8	14	11	12	20
45 "	709	...	...	...	...	...	...	1	3	1	2	4	6	6	8	11	8	16
46 "	574	...	...	...	...	2	...	...	...	...	...	4	2	6	6	11	9	7
47 "	464	...	...	...	...	...	...	...	...	1	2	1	...	2	6	4	5	11
48 "	408	...	...	...	...	...	...	...	1	...	1	2	2	1	4	8	4	7
49 "	370	...	...	...	...	...	...	2	1	1	...	...	6	1	3	2	4	9
50 "	285	...	...	...	...	...	...	...	...	1	2	1	2	2	2	6	3	7
51 "	196	...	...	...	...	...	...	...	...	1	...	...	...	...	1	1	2	2
52 "	187	...	...	...	...	...	...	...	...	1	1	2	3	...	3	3	3	4
53 "	149	...	...	...	...	...	...	2	1	2	1	1	...	1	1	1	3	...
54 "	92	...	...	...	...	...	...	...	...	1	1	...	2	1	2	2	2	...
55 "	79	...	...	...	...	...	...	...	...	...	1	...	2	1	...	2	...	2
56 "	72	...	...	...	...	...	...	...	1	...	...	...	...	1	1	2	1	2
57 "	52	...	...	...	...	...	...	...	1	...	...	1	...	...	2	3	...	1
58 "	50	...	...	...	...	...	...	...	...	...	...	1	1	3	1	...	1	5
59 "	43	...	...	...	...	...	...	...	...	...	...	...	1	2	...	3	...	...
60 "	33	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	1
61 "	19	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
62 "	17	...	...	...	...	...	...	...	...	...	...	...	1	1	2	...	...	...
63 "	11	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...
64 "	18	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	3
65 and over	38	...	...	...	...	...	...	...	...	...	...	1	...	2	...	1	2	...
Not stated	102	...	...	...	...	...	1	1	2	2	2	2	2	1	2	2	1	1
Children born to married mothers	62,503	..	1	6	36	225	643	1510	2091	2688	3230	3640	3924	3966	3966	3812	3460	3601
Children born to unmarried mothers	3,061	1	8	13	51	117	213	286	304	275	281	226	219	171	126	112	91	100
Children born to all mothers	65,564	1	9	19	87	342	856	1796	2395	2963	3511	3866	4143	4137	4092	3924	3551	3701

according to Age of Parents, Ontario, 1938

MOTHER

29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50 and over	Not stated
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
2	....	4	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	2	4	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	13	4	3	2	1	2	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	2
26	15	8	5	5	4	....	2	....	1	2	....	....	....	....	....	....	....	....	....	....	....	1
33	23	15	8	3	7	5	....	2	2	1	....	....	....	....	....	....	....	....	....	....	....	....
92	46	27	28	6	9	2	2	2	1	....	....	....	....	....	....	....	....	....	....	....	....	1
120	95	37	32	22	10	3	1	4	....	....	1	....	....	....	....	....	....	....	....	....	....	1
209	137	63	60	27	17	13	11	5	10	1	1	1	....	....	....	....	....	....	....	....	....	1
299	229	122	53	51	28	14	7	5	4	2	....	....	1	....	....	....	....	....	....	....	....	1
362	315	177	120	63	31	26	22	11	8	3	1	....	....	1	....	1	....	....	....	....	....	1
339	292	277	168	86	54	28	20	15	6	4	2	....	1	2	....	....	....	1	....	....	....	1
296	317	310	236	174	90	42	27	21	17	8	1	2	....	2	....	....	....	....	....	....	....	....
267	279	268	283	205	126	80	53	23	12	11	4	5	....	2	....	....	....	....	....	....	....	4
239	261	225	265	257	199	106	64	30	24	10	6	9	....	1	....	....	....	....	....	....	....	2
180	226	199	251	235	200	195	100	47	36	15	13	5	2	2	1	....	1	....	....	....	....	1
142	152	163	199	162	186	194	134	93	51	19	21	2	3	2	....	1	....	....	....	....	....	....
121	141	118	179	196	173	168	140	144	90	50	26	10	7	4	3	1	....	....	....	....	....	2
99	139	143	159	160	183	144	180	142	138	65	34	14	11	6	1	....	....	....	1	....	....	....
98	81	73	114	101	118	154	137	115	114	117	58	17	12	8	3	1	....	....	....	....	....	1
45	84	65	79	98	115	106	137	112	154	112	63	57	15	9	4	2	....	1	....	....	....	1
29	51	70	74	72	80	86	92	115	89	91	63	50	29	8	3	3	1	....	....	....	....	1
33	41	50	73	70	73	87	83	109	110	93	95	59	44	21	10	4	1	1	....	....	....	1
22	31	26	44	70	62	67	62	79	74	70	75	53	38	31	12	1	2	....	....	....	....	....
18	34	18	42	43	50	34	42	70	83	74	73	62	47	34	21	7	6	3	....	....	....	....
16	15	28	33	31	41	61	41	34	55	62	64	48	37	31	24	16	5	1	....	....	....	....
14	13	17	25	24	28	40	47	57	43	44	44	38	34	29	13	11	3	2	....	....	....	1
11	15	13	14	20	30	20	36	51	46	26	42	26	33	23	16	8	2	....	....	....	....	....
13	9	14	23	9	14	13	28	41	47	22	27	24	35	20	15	9	8	5	2	....	....	....
7	6	14	8	19	22	12	21	24	33	40	38	21	24	18	16	7	3	3	3	1	....	1
6	5	5	16	9	10	10	14	28	32	9	31	21	12	20	14	9	5	2	1	....	....	....
2	5	9	5	10	14	8	5	15	13	17	17	16	16	12	12	6	2	2	2	....	....	1
4	....	3	8	8	8	13	11	10	14	14	11	12	20	14	8	2	3	3	1	....	....	....
4	2	6	7	5	8	3	11	7	12	10	13	7	13	10	9	4	3	1	....	1	....	....
1	4	2	3	1	6	5	5	6	7	5	4	4	9	6	8	3	2	....	....	....	....	....
1	1	....	2	2	5	8	4	6	3	6	10	3	7	3	6	3	....	1	....	....	....	....
2	4	1	2	5	3	3	8	2	3	7	3	3	4	6	3	3	1	1	....	....	....	....
2	1	1	....	1	2	3	2	9	6	3	4	1	5	3	....	1	....	....	....	....	....	....
....	1	1	....	2	1	2	4	....	6	3	3	3	2	3	2	3	....	2	....	....	....	....
....	2	1	3	3	....	....	3	2	1	2	3	2	4	1	6	1	1	1	1	....	....	....
2	1	1	2	2	1	1	5	1	3	2	1	....	3	2	....	2	....	....	....	....	....	....
....	2	2	....	2	1	1	1	....	1	....	2	2	1	1	....	2	....	....	....	....	....	....
1	....	1	....	1	....	1	1	1	....	1	....	2	1	1	1	....	....	....	1	....	....	....
....	....	1	....	....	1	1	1	1	....	....	1	3	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	4	1	1	1	1	....	3	1	....	....	....	....	1	....	....	....	....	....
1	2	....	1	3	3	3	1	4	4	2	2	1	1	....	1	3	....	....	....	....	....	....
2	....	....	....	1	3	....	1	1	1	1	....	....	....	1	....	....	....	....	....	....	....	72
3176	3092	2587	2630	2267	2021	1766	1567	1447	1355	1025	860	585	471	337	212	114	50	30	12	2	....	98
54	47	54	45	34	33	37	24	29	26	15	15	7	10	8	5	2	....	....	....	....	1	21
3230	3139	2641	2675	2301	2054	1803	1591	1476	1381	1040	875	592	481	345	217	116	50	30	12	2	1	119

Table 11—Births (exclusive of Stillbirths) Classified according to Racial Origin of Parents, Ontario, 1938

Racial Origin of Father	Total	RACIAL ORIGIN OF MOTHER																																	
		English	Irish	Scottish	Welsh	French	Armenian	Austrian	Belgian	Bulgarian	Chinese	Czech and Slovak	Danish	Dutch	Finnish	German	Greek	Hindu	Hungarian	Icelandic	Indian	Italian	Japanese	Jewish	Negro	Norwegian	Polish	Roumanian	Russian	Serb and Croat	Swedish	Swiss	Syrian	Ukrainian*	Other	Not specified
English	22,090	14383	2725	2741	90	828	...	12	10	...	...	7	18	186	36	592	6	..	8	4	27	63	..	4	2	28	68	6	23	3	42	25	4	45	5	99
Irish	10,544	2966	4318	1636	48	787	...	5	5	...	...	1	6	151	22	338	4	..	4	4	15	37	..	2	...	20	49	2	4	1	29	9	3	35	4	39
Scottish	8,815	2989	1617	2983	58	454	...	6	6	...	...	2	7	148	23	295	2	..	3	3	10	27	..	3	...	23	21	3	4	1	30	11	4	29	5	48
Welsh	349	137	70	71	21	17	...	...	...	...	...	...	...	11	1	11	1	..	...	..	2	3	..	...	...	...	2	1	...	...	1	...	..	...	...	...
French	9,046	701	671	311	12	6997	...	1	17	...	...	1	3	33	15	111	...	..	4	..	29	23	..	3	...	6	43	7	5	...	13	1	2	23	1	13
Armenian	17	2	1	1	...	...	11	...	...	...	...	...	...	...	...	1	...	..	...	..	...	...	..	...	...	...	...	...	...	...	...	...	..	...	1	...
Austrian	104	12	7	6	...	5	...	44	...	...	...	...	...	...	1	10	...	..	1	..	...	...	..	...	...	...	7	...	6	...	...	...	..	4	1	...
Belgian	191	29	8	6	...	22	...	...	116	...	...	...	...	...	...	6	...	..	...	..	...	2	..	...	...	...	1	...	1	...	...	...	..	...	...	...
Bulgarian	31	2	3	...	...	...	...	...	...	18	...	...	...	...	...	...	2	..	...	..	...	...	..	...	...	...	1	...	...	...	...	...	..	5	...	...
Chinese	48	5	4	3	...	6	...	...	...	...	27	...	...	...	...	...	...	..	...	..	...	...	..	...	1	...	...	...	1	...	...	...	..	1	...	...
Czech and Slovak	328	4	5	3	...	3	...	...	...	...	...	275	...	...	1	5	1	..	3	..	...	1	..	...	...	...	5	...	2	...	...	...	..	20	...	...
Danish	119	33	14	14	1	6	...	...	1	...	...	...	28	1	6	5	...	..	...	..	...	...	..	1	...	2	...	...	...	...	3	...	..	3	...	1
Dutch	849	271	154	125	6	62	...	...	9	...	...	1	...	157	6	37	...	..	1	..	2	3	..	2	...	2	1	...	...	1	1	2	..	2	1	3
Finnish	312	16	4	10	...	9	...	...	...	...	...	...	...	1	256	2	...	..	1	..	2	1	..	...	...	2	4	...	...	...	2	...	..	2	...	...
German	3,216	599	384	319	6	115	...	5	2	...	...	5	2	32	6	1645	1	..	7	..	11	7	..	...	...	4	31	4	3	3	5	6	..	8	2	4
Greek	107	6	1	2	1	2	...	...	...	...	...	...	...	...	1	3	83	..	1	..	...	...	..	...	...	...	1	...	1	2	...	...	1	1	1	...
Hindu	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	..	...	...	...	...	1	...	...	...	...	..	...	...	...
Hungarian	295	4	3	10	...	5	...	...	...	...	...	1	...	1	...	5	...	..	256	..	...	...	..	...	...	1	2	1	1	2	...	...	..	3	...	...
Icelandic	14	3	3	2	...	1	...	...	...	...	...	...	...	1	2	...	...	..	...	2	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...	...
Indian	668	37	10	10	...	19	...	...	...	...	...	...	...	3	...	4	...	..	...	..	578	2	..	...	2	...	...	...	...	...	...	...	..	...	...	3
Italian	1,137	114	58	49	1	44	...	...	...	...	...	2	1	2	5	12	1	..	2	..	2	807	..	3	...	...	11	...	3	1	...	...	1	15	...	3
Japanese	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	1	...	...	...	...	...	...	...	...	...	..	...	...	...
Jewish	880	7	8	5	...	5	...	...	...	...	...	...	...	...	1	1	...	..	...	..	...	...	..	846	...	...	2	...	3	...	...	...	..	1	...	1
Negro	129	3	2	1	...	2	...	...	...	...	...	...	...	...	...	...	...	..	...	..	1	...	..	...	119	...	1	...	...	...	...	...	..	...	...	...
Norwegian	124	27	19	16	...	5	...	...	...	...	...	...	2	1	5	9	...	..	1	..	2	2	..	...	...	17	...	...	1	...	15	...	..	...	1	1
Polish	804	26	24	4	...	27	...	3	...	...	...	1	1	1	...	19	...	..	1	..	...	5	..	5	...	1	600	4	12	1	3	...	..	64	1	1
Roumanian	123	11	4	5	...	7	...	2	...	...	...	1	1	...	1	2	...	..	2	..	1	1	..	1	...	...	8	61	4	1	...	...	1	9	...	...
Russian	198	13	10	8	2	12	...	8	...	...	...	...	...	1	...	3	...	..	3	..	1	...	..	2	...	...	24	4	81	...	2	1	..	20	2	1
Serb and Croat	245	11	3	5	...	7	...	1	...	...	...	...	...	1	2	3	2	..	1	..	...	8	..	...	...	...	4	4	2	177	...	...	..	13	...	1
Swedish	250	57	23	26	2	16	...	2	...	...	...	...	2	5	25	6	...	..	2	..	...	1	..	...	...	11	...	1	...	...	68	...	..	3	...	...
Swiss	82	28	6	7	1	5	...	1	...	...	...	...	...	...	...	7	...	..	...	..	...	1	..	...	...	...	...	...	...	...	...	24	..	1	...	1
Syrian	62	6	9	1	...	5	...	...	1	...	...	...	...	...	...	...	...	..	...	..	...	...	..	...	...	...	2	...	...	...	...	...	38	...	...	...
Ukranian	796	51	9	16	...	17	...	2	...	...	...	1	1	1	5	7	...	..	2	..	...	7	..	...	...	...	56	4	10	2	...	...	1	603	...	1
Other	72	10	4	4	...	5	...	...	...	...	...	...	...	...	6	2	1	..	1	..	...	...	..	...	1	...	2	...	...	...	...	...	..	4	29	3
Not specified	455	79	20	36	3	17	...	...	...	...	...	...	...	...	1	5	...	..	2	..	1	3	..	...	...	1	...	...	1	...	2	1	..	3	1	279
Children born to married mothers T.	62,503	22642	10201	8437	252	9512	11	92	167	18	27	298	72	737	427	3146	104	..	306	13	684	1004	1	872	125	118	946	103	168	195	216	80	55	917	55	502
M.	32,022	11547	5301	4395	129	4838	4	51	88	11	11	140	39	395	219	1616	50	..	151	11	311	500	1	442	65	63	490	45	88	96	121	40	32	461	26	245
F.	30,481	11095	4900	4042	123	4674	7	41	79	7	16	158	33	342	208	1530	54	..	155	2	373	504	..	430	60	55	456	58	80	99	95	40	23	456	29	257

Children born to unmarried mothers T.	3,061	1048	447	350	9	462	...	4	5	2	...	4	3	38	35	143	5	..	13	..	136	32	..	11	24	8	60	10	14	5	11	2	2	92	3	83
M.	1,583	586	216	172	6	233	...	1	2	...	...	3	1	15	14	74	2	..	8	..	66	14	..	10	11	5	28	5	8	1	7	1	1	42	2	49
F.	1,478	462	231	178	3	229	...	3	3	2	...	1	2	23	21	69	3	..	5	..	70	18	..	1	13	3	32	5	6	4	4	1	1	50	1	34
Children born to all mothers. T.	65,564	23690	10648	8787	261	9974	11	96	172	20	27	302	75	775	462	3289	109	..	319	13	820	1036	1	883	149	126	1006	113	182	200	227	82	57	1009	58	585
M.	33,605	12133	5517	4567	135	5071	4	52	90	11	11	143	40	410	233	1690	52	..	159	11	377	514	1	452	76	68	518	50	96	97	128	41	33	503	28	294
F.	31,959	11557	5131	4220	126	4903	7	44	82	9	16	159	35	365	229	1599	57	..	160	2	443	522	..	431	73	58	488	63	86	103	99	41	24	506	30	291

---

*Including "Galician" and "Bukovinian."

Table 12—Legitimate Births (exclusive of Stillbirths) Classified

Racial Origin of Mother	Total	AGE OF															
		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
English	22,642	1	1	15	94	232	629	803	997	1188	1427	1512	1501	1518	1416	1251	1365
Irish	10,201	...	3	7	28	107	206	306	406	525	561	593	600	591	592	579	579
Scottish	8,437	...	...	2	24	62	177	215	313	373	408	493	496	548	539	496	468
Welsh	252	...	...	...	...	3	5	6	9	8	9	13	18	20	18	12	21
French	9,512	...	...	7	37	121	250	381	463	545	593	600	601	577	583	494	492
Armenian	11	...	...	...	...	...	1	...	...	...	1	1	1	2	1	...	...
Austrian	92	...	...	...	...	...	1	5	2	4	5	7	9	8	4	5	3
Belgian	167	...	...	...	2	3	4	9	3	2	9	12	6	12	11	7	9
Bulgarian	18	...	...	...	...	...	...	...	...	...	...	1	...	1	1	2	...
Chinese	27	...	...	...	...	...	1	...	2	1	2	1	1	2	...	...	3
Czech and Slovak	298	...	...	...	...	4	4	7	4	6	5	7	11	9	15	12	16
Danish	72	...	...	...	...	...	3	4	...	1	7	2	3	3	4	6	5
Dutch	737	...	1	1	2	9	14	32	34	34	55	43	57	41	38	39	41
Finnish	427	...	...	...	1	5	7	14	21	22	36	34	15	25	21	26	23
German	3,146	...	...	1	12	31	54	81	140	153	152	188	194	182	192	149	196
Greek	104	...	...	...	...	...	1	5	8	5	9	6	7	7	4	6	6
Hindu	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hungarian	306	...	...	...	1	8	11	15	15	16	8	15	21	9	6	10	15
Icelandic	13	...	...	...	...	1	...	...	...	...	1	...	1	...	1	...	...
Indian	684	...	...	1	6	18	26	34	29	35	37	27	42	45	33	38	37
Italian	1,004	...	...	...	2	4	16	29	36	70	63	87	76	72	71	61	49
Japanese	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jewish	872	...	...	...	1	1	8	5	14	21	41	46	76	79	67	84	79
Negro	125	...	...	...	...	2	3	3	16	7	10	5	6	4	5	9	7
Norwegian	118	...	...	...	...	3	1	5	7	4	9	2	12	10	5	9	3
Polish	946	...	1	...	2	5	25	31	41	67	53	62	70	53	45	59	51
Roumanian	103	...	...	1	1	...	7	4	5	11	6	7	6	2	4	3	8
Russian	168	...	...	...	1	2	7	12	9	8	9	8	13	8	10	12	5
Serb and Croat	195	...	...	...	1	5	2	5	5	8	8	10	13	9	10	8	12
Swedish	216	...	...	...	2	...	3	7	9	8	18	17	13	22	16	13	8
Swiss	80	...	...	...	...	...	...	1	1	1	3	2	3	5	5	3	5
Syrian	55	...	...	...	...	...	1	1	3	5	2	7	4	4	6	2	2
Ukrainian*	917	...	...	...	6	11	23	51	70	68	70	80	67	66	53	30	55
Other	55	...	...	...	...	1	2	1	2	4	4	2	2	3	6	7	5
Not specified	502	...	...	1	2	5	18	19	24	30	19	34	21	29	30	28	33
Total	62,503	1	6	36	225	643	1510	2091	2688	3230	3640	3924	3966	3966	3812	3460	3601

*Including "Galician" and "Bukovinian".

according to Age and Racial Origin of Mothers, Ontario, 1938

MOTHER

29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50 and over	Not stated
1205	1066	899	898	740	657	576	534	445	459	357	282	175	151	111	66	41	16	5	4	...	....	5
517	537	455	459	387	338	346	272	280	254	177	145	137	81	47	47	14	7	8	1	...	....	9
468	467	373	385	336	333	265	221	238	188	165	124	79	72	52	24	14	7	4	2	...	....	6
12	11	14	11	10	11	8	4	5	4	5	5	3	2	2	1	1	....	1	...	...	....	....
424	430	365	367	352	282	237	233	215	216	162	145	99	86	69	35	18	6	9	1	2	....	15
....	....	....	1	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	...	...	....	....
4	5	1	6	2	2	....	6	3	1	3	....	2	2	1	....	....	....	....	1	...	....	....
5	6	4	8	7	6	6	10	8	4	6	3	2	2	....	....	....	1	....	...	...	....	....
2	2	1	1	....	....	2	4	1	....	....	....	....	....	....	....	....	....	....	...	...	....	....
1	3	1	1	1	1	1	....	....	1	1	....	1	....	....	....	1	....	....	...	...	....	1
18	15	28	18	23	23	17	12	17	10	4	4	2	1	1	2	....	1	....	...	...	....	2
6	4	7	2	1	4	2	2	....	2	1	1	....	....	1	1	....	....	....	...	...	....	....
42	38	36	28	36	22	13	16	10	12	10	9	9	4	4	4	...	2	....	1	...	....	....
17	22	13	24	24	9	12	10	12	15	5	3	2	2	3	1	2	1	....	...	...	....	....
152	177	148	158	130	109	106	94	69	67	54	45	35	27	20	12	10	6	....	1	...	....	1
7	4	3	4	3	3	5	3	6	1	....	....	1	....	....	....	....	....	....	...	...	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...	...	....	....
17	12	14	17	12	20	8	8	11	11	4	10	4	4	3	....	....	....	1	...	...	....	....
....	1	1	....	....	2	2	....	1	1	1	....	....	....	....	....	....	....	....	...	...	....	....
30	32	24	19	29	24	18	16	18	19	7	11	2	9	8	2	2	....	....	...	...	....	6
40	43	23	46	25	34	20	16	29	20	15	19	7	9	9	6	5	....	....	1	...	....	1
....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	...	...	....	....
61	59	55	33	26	26	23	19	10	12	7	7	4	3	....	....	....	1	....	...	...	....	4
4	6	3	5	5	3	4	3	6	2	4	1	....	1	....	1	....	....	....	...	...	....	....
6	4	7	5	3	4	3	5	2	4	....	....	2	....	....	1	....	....	1	...	...	....	1
54	40	32	46	34	39	29	24	20	8	12	15	7	6	2	4	2	1	1	...	...	....	5
3	4	5	5	3	1	2	3	1	4	3	2	....	2	....	....	....	....	....	...	...	....	....
8	10	6	6	7	5	4	7	4	2	1	4	....	....	....	....	....	....	....	...	...	....	....
5	12	14	9	12	10	9	6	5	7	2	2	....	1	....	1	1	....	....	...	...	....	3
12	12	7	10	3	7	4	8	3	2	5	2	1	2	....	2	....	....	....	...	...	....	....
4	5	6	9	5	3	1	3	....	1	2	6	2	1	1	....	1	1	....	...	...	....	....
5	1	3	1	2	1	....	3	1	1	....	....	....	....	....	....	....	....	....	...	...	....	....
27	45	27	29	25	24	28	8	14	12	5	9	5	1	2	1	2	....	....	...	...	....	3
....	3	....	3	2	2	....	1	3	1	....	1	....	....	....	....	....	....	....	...	...	....	....
20	16	12	16	22	15	15	15	10	14	6	4	4	2	1	1	....	....	....	...	...	....	36
3176	3092	2587	2630	2267	2021	1766	1567	1447	1355	1025	860	585	471	337	212	114	50	30	12	2	....	98

Table 13—Births (exclusive of Stillbirths) Classified

Birthplace of Father	Total	BIRTHPLACE														
		Canada										British Isles				
		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Province not specified	England	Ireland	Scotland	Wales	Other
Canada	47,445	29	238	175	2686	38,077	638	569	199	111	38	2032	262	738	77	3
Prince Edward Island	43	4	....	....	2	29	1	1	....	....	....	2	1	....	....	....
Nova Scotia	393	4	73	4	21	197	8	2	4	3	....	24	9	12	3	....
New Brunswick	244	2	7	57	40	101	6	4	1	1	....	9	....	2	1	....
Quebec	3,047	1	6	16	1278	1,509	22	25	4	5	....	54	10	36	....	....
Ontario	42,138	17	141	93	1303	35,423	398	362	153	86	6	1858	230	652	69	3
Manitoba	667	1	4	3	14	321	155	52	13	2	....	30	4	14	2	....
Saskatchewan	536	....	5	....	14	293	36	113	8	4	1	23	3	5	1	....
Alberta	192	....	1	1	8	129	5	7	14	4	....	11	2	5	1	....
British Columbia	88	....	1	1	4	56	6	3	2	6	....	3	....	3	....	....
Province not specified	97	....	....	....	2	19	1	....	....	....	31	18	3	9	....	....
British Isles	8,383	10	48	22	154	4,632	115	65	34	14	47	1575	421	874	56	7
England	5,248	7	38	16	108	3,051	83	43	24	8	33	1229	100	269	23	5
Ireland	1,025	1	1	2	16	508	17	6	3	4	3	91	253	90	4	....
Scotland	1,888	2	7	4	28	944	14	16	6	2	10	222	62	499	11	1
Wales	186	....	2	....	2	104	1	....	1	....	1	27	6	13	18	....
Other	36	....	....	....	....	25	....	....	....	....	....	6	....	3	....	1
British Possessions	247	1	8	2	9	122	3	3	2	1	....	24	2	7	....	....
Newfoundland	139	1	2	....	4	67	2	3	....	....	....	12	2	5	....	....
Other	108	....	6	2	5	55	1	....	2	1	....	12	....	2	....	....
Europe	4,818	....	14	4	84	1,132	119	107	16	6	15	75	16	36	2	1
Austria	235	....	2	1	3	55	23	9	....	....	2	2	....	3	....	....
Belgium	163	....	....	....	3	43	5	3	1	....	....	3	1	....	....	....
Denmark	90	....	....	2	....	32	1	2	1	....	1	4	1	3	1	....
Finland	208	....	....	....	....	51	1	3	....	1	1	1	....	2	....	....
France	31	....	....	....	3	15	1	2	....	....	....	....	....	....	....	....
Germany	184	....	2	1	4	82	3	6	....	....	1	9	5	5	....	....
Holland	135	....	1	....	1	60	4	....	....	1	....	13	2	....	1	....
Hungary	276	....	....	....	....	23	1	4	1	....	....	1	....	2	....	....
Italy	765	....	3	....	13	256	2	1	....	1	1	11	2	5	....	1
Norway	52	....	....	....	2	23	1	5	....	....	....	4	....	....	....	....
Poland	1,098	....	1	....	18	195	39	30	4	....	7	9	1	3	....	....
Roumania	182	....	....	....	7	39	2	15	5	1	1	2	....	5	....	....
Russia*	491	....	1	....	13	105	23	18	2	....	....	4	1	....	....	....
Sweden	118	....	....	....	3	54	7	1	1	1	....	2	....	3	....	....
Other	790	....	4	....	14	99	6	8	1	1	1	10	3	5	....	....
Asia	106	....	....	1	10	41	....	1	2	9	1	1	....	1	....	....
China	52	....	....	....	3	23	....	1	2	9	1	1	....	1	....	....
Japan	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Other	53	....	....	1	7	18	....	....	....	....	....	....	....	....	....	....
United States	1,415	1	10	7	83	930	26	24	11	6	3	80	7	25	4	1
Various	23	....	....	....	1	15	1	....	....	....	1	....	....	2	....	....
Not specified	66	....	....	....	1	20	1	2	....	....	....	....	....	1	....	....
Children born to married mothers	62,503	41	318	211	3028	44,969	903	771	264	147	105	3787	708	1684	139	12
Children born to unmarried mothers	3,061	5	25	11	143	2334	69	59	9	3	15	150	17	46	4	3
Children born to all mothers	65,564	46	343	222	3171	47,303	972	830	273	150	120	3937	725	1730	143	15

*Including the Ukraine.

according to Birthplace of Parents, Ontario, 1938

OF MOTHER

British Possessions		Europe															Asia					
Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland	Roumania	Russia*	Sweden	Other	China	Japan	Other	United States	Various	Not specified
69	30	10	16	5	31	9	26	17	6	34	6	62	5	42	20	15	8	3	5	1123	8	23
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	..	....
8	....	....	....	....	....	....	....	....	....	1	1	....	....	2	1	....	....	....	....	16	..	....
1	1	....	....	....	1	....	....	....	....	....	....	....	....	....	2	....	....	....	....	8	..	....
1	....	1	1	....	1	3	1	....	1	4	2	2	....	2	1	3	1	....	2	53	1	1
57	28	6	11	4	26	6	23	15	2	28	3	43	4	34	13	12	5	3	2	990	7	22
1	....	1	....	1	....	....	....	....	....	....	....	11	....	3	....	....	1	....	1	33	..	....
....	....	1	3	....	3	....	2	1	3	....	....	2	....	....	1	....	....	....	....	14	..	....
....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	2	..	....
....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	..	....
1	....	....	1	....	....	....	....	1	....	1	....	3	1	1	1	....	1	....	....	3	..	....
25	27	....	7	3	3	3	2	7	2	1	1	19	3	9	3	5	1	....	1	186	..	1
20	16	....	4	2	2	3	....	6	1	1	1	18	3	6	3	4	1	....	1	118	..	1
2	4	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	19	..	....
3	6	....	3	1	....	....	1	1	1	....	....	....	....	3	....	1	....	....	....	40	..	....
....	1	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	8	..	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	..	....
39	21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	..	....
39	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	..	....
....	21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	..	....
1	....	126	95	32	183	9	67	33	241	429	16	808	88	303	21	581	....	....	1	148	5	4
....	....	96	....	....	1	....	5	....	3	1	....	13	2	8	....	3	....	....	....	2	..	1
....	....	....	86	....	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	15	..	....
....	....	....	1	26	6	....	1	....	....	....	2	1	....	....	1	....	....	....	....	4	..	....
....	....	....	....	1	133	....	....	....	....	....	1	1	....	....	....	....	....	....	....	12	..	....
....	....	....	....	....	....	5	....	....	....	2	....	1	....	....	....	1	....	....	....	1	..	....
....	....	1	....	1	6	....	43	1	1	....	....	4	3	....	....	2	....	....	....	4	..	....
....	....	....	7	....	3	....	4	31	....	2	....	2	....	....	....	....	....	....	....	3	..	....
....	....	1	....	....	....	....	2	....	217	....	....	1	3	5	....	1	....	....	....	14	..	....
....	....	1	....	....	....	....	1	....	1	422	....	1	....	3	....	1	....	....	....	34	5	....
....	....	....	....	1	2	....	....	....	....	....	9	....	....	....	2	....	....	....	....	3	..	....
....	....	8	....	1	2	....	5	....	1	....	....	699	4	45	....	8	....	....	....	17	..	1
....	....	2	....	1	1	....	2	....	5	1	....	17	61	7	....	5	....	....	....	2	..	1
....	....	12	....	....	2	....	2	....	1	....	....	48	10	229	....	7	....	....	....	13	..	....
1	....	1	....	1	18	....	1	1	....	....	4	....	....	....	18	....	....	....	....	1	..	....
....	....	4	1	....	9	1	1	....	12	1	....	20	5	6	....	553	....	....	1	23	..	1
1	2	....	....	....	....	....	....	....	....	....	....	2	....	1	....	....	8	1	22	1	..	1
....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	8	....	....	....	..	1
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	..	....
1	1	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	22	1	..	....
1	....	2	3	....	7	1	1	....	2	2	1	5	....	1	1	2	....	....	2	164	..	2
....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	2	..	38
136	80	138	121	40	224	23	97	57	251	466	24	896	96	356	45	603	17	4	31	1628	14	69
5	3	4	3	1	16	1	6	1	6	3	3	29	1	12	1	9	1	....	....	38	1	24
141	83	142	124	41	240	24	103	58	257	469	27	925	97	368	46	612	18	4	31	1666	15	93

Table 14—Legitimate Births (exclusive of Stillbirths) Classified

Birthplace of Mother	Total	AGE OF																
		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Canada	50,757	1	4	36	212	586	1381	1890	2493	2959	3320	3576	3543	3439	3165	2745	2792	2412
Prince Edward Island	41	...	...	...	....	....	1	....	....	1	3	4	2	3	3	4	2	2
Nova Scotia	318	...	...	...	....	1	7	8	12	19	21	19	29	21	18	21	23	19
New Brunswick	211	...	...	2	....	3	4	6	7	4	11	10	13	14	19	17	10	14
Quebec	3,028	...	...	...	5	17	54	92	97	140	186	185	186	176	192	160	150	144
Ontario	44,969	1	4	34	202	554	1257	1682	2250	2633	2912	3152	3108	3019	2777	2410	2489	2138
Manitoba	903	...	...	...	....	2	26	38	37	66	72	74	80	86	60	50	53	36
Saskatchewan	771	...	...	...	3	4	21	47	69	64	66	77	74	70	65	44	33	34
Alberta	264	...	...	...	2	3	5	15	14	15	21	33	28	27	23	21	17	11
British Columbia	147	...	...	...	....	1	4	....	3	6	13	14	16	15	7	12	9	6
Province not specified	105	...	...	...	....	1	2	2	4	11	15	8	7	8	1	6	6	8
British Isles	6,330	...	1	...	2	20	56	99	94	153	154	161	192	259	350	366	428	432
England	3,787	...	...	...	1	12	33	63	62	107	101	99	105	153	189	212	261	250
Ireland	708	...	1	...	....	1	8	9	8	7	13	20	22	18	32	49	61	62
Scotland	1,684	...	...	...	1	4	12	23	20	34	40	38	58	83	117	99	96	114
Wales	139	...	...	...	....	3	3	4	4	4	....	4	6	5	12	6	9	6
Other	12	...	...	...	....	....	....	....	....	1	....	....	1	....	....	....	1	....
British Possessions	216	...	...	...	1	....	2	1	3	5	4	11	9	13	5	14	11	16
Newfoundland	136	...	...	...	1	....	1	1	1	5	3	7	5	8	4	8	9	7
Other	80	...	...	...	....	....	1	....	2	....	1	4	4	5	1	6	2	9
Europe	3,437	...	1	...	6	22	42	61	41	47	80	94	136	160	179	226	254	205
Austria	138	...	...	...	....	....	....	2	1	1	....	1	4	6	7	7	5	13
Belgium	121	...	...	...	1	2	1	6	....	2	2	7	3	9	8	6	6	4
Denmark	40	...	...	...	....	....	1	2	....	....	3	1	1	1	1	2	3	4
Finland	224	...	...	...	1	2	3	1	5	3	8	3	3	8	7	13	15	8
France	23	...	...	...	....	....	....	1	1	....	1	....	....	....	....	3	4	2
Germany	97	...	...	...	....	1	3	1	1	3	1	3	2	1	2	6	10	5
Holland	57	...	...	...	1	....	1	2	1	2	7	2	5	2	1	3	2	3
Hungary	251	...	...	...	1	6	10	11	7	7	6	9	11	9	6	8	14	14
Italy	466	...	...	...	1	....	6	4	1	12	15	17	18	30	28	30	26	20
Norway	24	...	...	...	....	1	....	....	....	....	1	....	....	....	1	1	....	1
Poland	896	...	1	...	....	2	7	10	9	7	13	19	44	38	50	78	89	65
Roumania	96	...	...	...	....	1	3	1	1	1	1	1	3	3	4	4	12	4
Russia*	356	...	...	...	....	1	....	6	4	2	8	16	16	32	27	26	30	22
Sweden	45	...	...	...	....	....	....	3	1	....	1	1	1	3	2	3	1	2
Other	603	...	...	...	1	6	7	11	9	7	13	14	25	18	35	36	37	38
Asia	52	...	...	...	....	....	....	....	....	1	1	3	3	4	5	3	4	3
China	17	...	...	...	....	....	....	....	....	....	....	....	1	....	1	2	2	1
Japan	4	...	...	...	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Other	31	...	...	...	....	....	....	....	....	1	1	2	2	4	4	1	2	2
United States	1,628	...	...	...	4	14	29	40	53	63	78	77	83	90	108	104	109	103
Various	14	...	...	...	....	....	....	....	....	1	....	1	....	....	....	1	1	....
Not specified	69	...	...	...	....	1	....	....	4	1	3	1	....	1	....	1	2	5
Total	62,503	1	6	36	225	643	1510	2091	2688	3230	3640	3924	3966	3966	3812	3460	3601	3176

*Including the Ukraine.

according to Age and Birthplace of Mothers, Ontario, 1938

MOTHER

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50 and over	Not stated
2342	1939	1902	1631	1456	1244	1119	989	921	733	602	423	328	237	152	76	35	22	7	2	....	43
2	4	1	3	1	2	1	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....
17	14	12	11	15	5	1	7	4	5	4	3	1	....	....	....	....	....	....	....	....	1
12	8	9	5	7	4	7	5	4	6	3	3	1	2	....	....	1	....	....	....	....	....
144	157	118	135	106	80	105	91	79	52	53	38	31	26	16	6	1	3	....	....	....	3
2072	1690	1697	1439	1286	1123	981	872	813	663	541	374	290	202	134	70	33	19	7	2	....	39
54	35	28	21	20	20	10	10	11	6	1	1	1	4	1	....	....	....	....	....	....	....
27	16	19	11	9	1	9	2	2	....	....	1	2	1	....	....	....	....	....	....	....	....
7	4	7	3	2	2	....	....	2	....	....	1	....	1	....	....	....	....	....	....	....	....
5	8	6	2	7	3	4	1	3	....	....	1	1	....	....	....	....	....	....	....	....	....
2	3	5	1	3	4	1	1	3	1	....	1	....	1	....	....	....	....	....	....	....	....
398	348	392	372	312	285	254	261	265	180	159	106	89	60	38	22	10	5	2	....	....	5
222	196	239	217	176	170	160	151	162	112	111	67	60	41	28	19	6	1	....	....	....	1
46	39	49	52	31	34	24	26	37	15	11	17	4	5	3	1	....	2	....	....	....	1
118	100	97	96	100	76	66	76	63	48	32	21	22	12	6	2	4	1	2	....	....	3
12	10	7	4	5	5	4	6	3	4	5	1	3	2	1	....	....	1	....	....	....	....
....	3	....	3	....	....	....	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....
17	9	21	10	5	10	9	8	5	10	2	5	4	5	....	....	1	....	....	....	....	....
10	6	12	5	2	7	6	5	4	4	1	5	4	4	....	....	1	....	....	....	....	....
7	3	9	5	3	3	3	3	1	6	1	....	....	1	....	....	....	....	....	....	....	....
213	205	222	194	188	168	136	144	124	68	82	38	34	20	17	11	4	1	3	....	....	11
10	5	13	10	7	6	7	7	4	6	7	4	2	2	....	....	....	....	1	....	....	....
3	5	6	7	4	5	10	8	4	6	3	2	1	....	....	....	....	....	....	....	....	....
1	5	1	1	4	1	2	1	2	....	1	....	....	1	1	....	....	....	....	....	....	....
15	10	17	19	8	13	12	12	16	6	4	3	2	3	1	2	1	....	....	....	....	....
1	2	....	....	....	....	3	1	3	....	1	....	....	....	....	....	....	....	....	....	....	....
5	6	7	5	9	5	2	5	7	3	3	....	....	1	....	....	....	....	....	....	....	....
2	4	2	4	1	....	4	....	1	1	....	3	....	....	2	....	....	....	1	....	....	....
10	14	16	11	16	9	7	12	10	4	10	4	5	3	....	....	....	1	....	....	....	....
29	15	32	19	26	18	13	28	17	14	17	7	7	6	4	4	....	....	1	....	....	1
1	2	2	....	2	2	3	1	2	....	....	2	....	....	1	....	....	....	....	....	....	1
67	58	64	46	55	45	29	26	19	12	16	5	9	2	2	3	2	....	....	....	....	4
5	10	6	7	4	6	4	4	3	2	2	1	2	....	....	1	....	....	....	....	....	....
25	17	15	21	14	19	10	10	12	4	9	3	3	1	1	1	....	....	....	....	....	1
2	2	4	....	4	2	4	1	2	2	....	....	2	....	2	....	....	....	....	....	....	....
37	50	37	44	34	37	26	28	22	8	9	4	1	1	3	....	1	....	....	....	....	4
4	2	3	2	1	3	3	1	2	2	1	....	....	....	....	1	....	....	....	....	....	....
3	1	....	....	....	3	....	....	1	1	....	....	....	....	....	1	....	....	....	....	....	....
1	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
....	1	2	2	1	....	3	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....
114	83	88	58	57	51	45	44	36	32	14	13	15	13	5	2	....	2	....	....	....	1
2	1	....	....	....	3	....	....	....	....	....	....	1	2	....	1	....	....	....	....	....	....
2	....	2	....	2	2	1	....	2	....	....	....	....	....	....	1	....	....	....	....	....	38
3092	2587	2630	2267	2021	1766	1567	1447	1355	1025	860	585	471	337	212	114	50	30	12	2	....	98

Table 15—Plural Births Classified to Show Number of Children Born Alive and Stillborn by Sex, for the Province of Ontario, 1938

Classification of Births		Total
Twin Births		682
Two males (both living)		212
One male and one female (both living)		203
Two females (both living)		198
One male living and one male stillborn		20
One male living and one female stillborn		11
One male stillborn and one female living		5
One female living and one female stillborn		15
Two males (both stillborn)		8
One male and one female (both stillborn)		4
Two females (both stillborn)		6
Triplet births		6
Three males (all living,		1
One male and two females (all living)		3
Three females all living)		2
Total multiple births	No.	688
	M.	709
	F.	673
Total single live births	No.	64,269
	M.	32,941
	F.	31,328
Total single stillbirths	No.	1,928
	M.	1,049
	F.	879
Total confinements		66,885

MARRIAGES

Table 16—Marriages in the Province of Ontario by Months, 1938

	Total Marriages	Months											
		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total for the province	30,080	1,642	1,685	1,361	2,394	2,150	4,040	2,784	2,567	3,406	3,406	2,433	2,212

Table 17—Marriages—Conjugal Condition of Contracting Parties, in the Province of Ontario, 1938

	Total Marriages	MARRIAGES BETWEEN									Per cent. of Bridegrooms who were			Per cent. of Brides who were		
		Bachelors and			Widowers and			Divorced men and								
		Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	Bachelors	Widowers	Divorced	Spinsters	Widows	Divorced
Total for the province ..	30,080	29,355	91	31	219	279	15	75	4	11	98.0	1.7	0.3	98.6	1.2	0.2

Table 18—Marriages Reported in Rural and Urban Parts of Counties, in the Province of Ontario, 1938

COUNTIES	Total	Rural	Urban	COUNTIES	Total	Rural	Urban
Total for the province	30,080	6,749	23,331	Manitoulin	66	59	7
Addington	36	36	....	Middlesex	1,055	198	857
Algoma	417	93	324	Muskoka	177	55	122
Brant	438	66	372	Nipissing	305	116	259
Bruce	316	166	150	Norfolk	288	124	164
Carleton	1,419	157	1,262	Northumberland	212	91	121
Cochrane	678	214	464	Ontario	414	139	275
Dufferin	106	56	50	Oxford	449	161	288
Dundas	104	42	62	Parry Sound	184	124	60
Durham	166	82	84	Peel	184	106	78
Elgin	358	171	187	Perth	387	123	264
Essex	1,436	170	1,266	Peterborough	397	62	335
Frontenac	407	95	312	Prescott	179	106	73
Glengarry	134	103	31	Prince Edward	92	54	38
Grenville	128	48	80	Rainy River	85	21	64
Grey	397	180	217	Renfrew	306	121	185
Haldimand	174	89	85	Russell	110	90	20
Haliburton	37	37	....	Simcoe	623	215	408
Halton	231	70	161	Stormont	319	81	238
Hastings	508	197	311	Sudbury	712	137	575
Huron	293	173	120	Thunder Bay	618	93	525
Kenora including Patricia	217	42	175	Timiskaming	516	84	432
Kent	564	189	375	Victoria	193	103	90
Lambton	449	176	273	Waterloo	770	104	666
Lanark	264	64	200	Welland	796	182	614
Leeds	264	97	167	Wellington	425	112	313
Lennox	95	44	51	Wentworth	1,674	154	1,520
Lincoln	488	95	393	York	8,350	782	7,568

Table 19—Marriages—Ages of Bridegrooms and Brides, Ontario, 1938

Age of Bridegroom	Total grooms	AGE OF BRIDE																																								
		Under 16	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50—54	55—59	60—64	65—69	70—74	75 and over	Not stated
Under 18	57	4	12	13	14	6	3	1	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	252	5	30	56	84	36	16	9	7	2	3	2	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	481	8	26	79	139	107	52	28	13	12	11	1	2	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	799	7	30	85	204	154	116	72	50	25	18	11	8	4	5	2	2	1	1	1	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	2,012	22	52	158	457	337	312	286	144	100	59	28	14	17	10	5	4	1	1	1	2	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
22	2,182	13	45	122	352	340	293	317	269	160	104	71	33	22	14	10	8	3	1	1	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	2,506	15	46	105	313	318	313	387	314	265	167	101	55	43	26	10	10	3	3	6	3	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	2,674	12	37	102	263	246	294	344	336	298	303	176	74	79	30	37	13	7	9	4	2	1	2	2	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
25	2,421	9	15	47	188	174	228	276	312	286	317	216	133	74	50	35	22	12	7	6	7	2	1	...	...	1	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...
26	2,158	5	15	34	138	149	170	213	232	242	258	206	176	121	72	50	33	9	12	7	5	3	2	2	1	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...
27	1,929	4	12	41	104	110	116	169	165	204	212	160	201	170	85	60	47	22	18	9	6	4	1	2	2	...	1	...	...	...	1	1	...	...	...	...	...	1	1	...	...	...	...
28	2,043	8	11	25	85	112	121	168	207	191	214	193	167	151	140	83	40	47	24	17	5	9	3	3	8	4	2	2	...	...	...	1	1	...	...	...	...	...	1	...	...	...	...
29	1,538	2	10	26	60	57	82	118	103	118	134	160	124	143	107	116	63	38	29	13	6	6	7	4	5	...	5	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...
30	1,323	2	9	18	52	37	68	87	73	111	118	94	109	112	114	87	74	43	33	14	26	16	6	8	3	4	2	1	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
31	974	...	5	14	24	38	37	55	44	79	75	92	80	81	67	74	64	41	32	16	16	9	12	5	4	2	3	1	2	...	...	...	...	...	...	...	1	1	...	...	...	...	...
32	812	1	3	4	29	26	31	38	47	45	64	60	79	60	66	43	49	43	42	27	13	14	9	10	3	1	3	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...
33	732	2	...	13	22	22	24	30	43	51	50	33	55	54	58	44	53	39	39	33	22	14	8	6	9	2	4	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...
34	622	...	4	7	18	17	15	32	25	49	39	31	50	42	42	41	33	41	22	29	27	18	8	5	7	8	2	1	1	1	2	2	1	1	...	...	...	1	...	...	...	...	...
35	493	...	5	4	15	8	16	15	26	24	26	40	37	24	34	35	28	24	32	23	17	18	4	9	6	5	5	3	2	2	...	...	1	...	3	1	1	...	...	...	...	...	...
36	404	...	...	3	11	7	7	21	21	17	22	20	31	22	20	20	21	19	22	23	17	25	17	6	10	7	3	1	2	3	...	1	...	1	...	1	2	...	1	...	...	...	...
37	435	...	...	2	7	5	8	18	13	19	18	33	24	29	16	26	30	18	31	20	35	15	18	15	9	7	3	4	4	2	2	...	...	2	...	1	1	...	...	...	...	...	...
38	383	...	2	4	2	13	9	7	8	13	21	19	17	22	20	20	24	19	18	21	15	13	19	23	15	15	7	6	4	1	2	...	...	...	1	...	2	1	...	...	...	...	...
39	255	1	...	...	5	4	7	7	5	10	11	10	12	10	15	13	11	7	14	16	18	13	13	15	9	11	9	3	2	2	1	...	...	1	...	...	...	...	...	...	...	...	...
40	235	...	...	1	3	2	2	3	7	8	10	6	9	11	15	3	12	15	14	7	17	13	7	5	8	9	9	9	9	5	3	3	2	1	...	3	3	...	...	...	1	...	...
41	164	...	...	...	2	1	3	3	3	4	2	6	4	3	12	12	9	11	4	6	10	10	12	9	10	8	3	7	3	...	...	2	1	...	...	...	4	...	...	...	...	...	...
42	195	...	...	2	6	1	5	1	6	4	8	6	7	6	3	12	13	7	13	9	14	5	5	9	8	9	5	7	6	5	1	7	...	1	...	...	4	...	...	...	...	...	...
43	130	...	...	...	1	...	3	3	4	5	...	4	3	5	7	4	3	4	4	8	7	11	5	5	6	5	5	3	9	2	3	1	...	2	...	2	5	...	...	1	...	...	...
44	145	...	...	...	...	5	...	5	3	4	1	4	1	3	6	3	7	10	5	7	6	5	6	3	5	10	9	4	6	8	3	3	5	2	3	2	...	1	...	...	...	...	...
45	122	...	...	...	1	1	...	2	2	2	1	2	3	2	5	7	6	3	6	10	7	2	1	7	3	2	9	3	3	1	5	5	5	6	2	...	7	...	1	...	...	...	...
46	103	...	...	1	...	...	...	2	1	3	4	...	4	1	...	...	4	2	9	3	3	4	6	4	4	7	4	6	8	3	4	3	4	2	2	1	2	2	...	...	...	...	...
47	90	...	...	...	2	...	...	...	2	2	2	1	1	5	1	2	4	2	5	2	1	1	6	7	7	4	2	5	2	6	5	...	2	3	1	1	5	...	1	...	...	...	...
48	113	...	...	1	2	...	...	...	2	1	2	2	2	2	2	4	4	2	3	4	2	6	5	5	6	3	8	6	3	5	5	6	4	2	5	2	6	1	...	...	...	...	...
49	86	...	...	...	1	1	...	2	1	1	1	...	...	2	...	...	9	3	2	1	2	5	4	2	6	3	...	5	2	1	8	3	2	8	3	3	5	...	...	...	...	...	...
50-54	431	...	...	...	1	1	4	4	...	1	4	4	9	6	4	7	9	8	11	14	4	15	13	19	12	10	12	19	23	20	12	24	16	10	20	14	73	19	7	1	...	1	...
50-59	268	...	1	1	...	1	2	1	1	2	2	2	2	1	...	2	5	2	2	1	4	4	1	5	2	6	16	5	9	7	12	9	15	13	12	12	46	41	11	9	1	...	...
60-64	221	...	...	...	...	...	...	1	1	...	1	...	...	2	3	2	1	1	3	4	...	3	3	6	1	2	6	3	4	9	3	5	6	7	6	7	38	43	38	9	3	...	...
65-69	153	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	3	1	...	1	...	1	1	3	2	4	3	7	6	4	5	23	21	38	22	5	...	...
70-74	81	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	1	1	1	1	2	1	2	...	1	...	...	...	2	8	13	22	13	6	4	...
75-79	45	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		1	1	1	...	...	...	...	2	5	5	11	6	6	5	...
80 and over	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	5	4	2	...	...	...
Not stated	......	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total brides	30,080	120	370	969	2605	2336	2357	2725	2491	2359	2283	1795	1527	1332	1049	871	715	507	473	366	320	272	207	203	173	147	140	108	112	91	78	82	75	68	64	59	243	157	136	63	22	10	...

Table 20—Marriages—Denominations of Contracting Parties, 1938

Denomination of Groom	Total Grooms	DENOMINATION OF BRIDE: Adventists	Anglicans	Baptists	Brethren	Christians	Christian Science	Church of Christ	Disciples	Evangelicals	Friends	Greek Catholics	Greek Orthodox	Holiness Movement	Jews	Lutherans	Mennonites	Mormons	Pentecostal	Presbyterians	Protestants	Roman Catholics	Salvation Army	Unitarians	United Brethren	United Church	Oriental religions	No religion	Other sects	Not stated
Adventists	19	8	3	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	3	...	...	...	3	...	...	...	...
Anglicans	6,255	3	3500	278	5	1	10	3	3	9	1	10	3	...	5	60	4	11	8	538	9	446	17	1	...	1295	...	...	34	1
Baptists	1,679	...	265	778	4	...	3	3	2	6	...	3	...	...	1	19	2	5	6	126	2	93	10	...	...	332	...	...	16	1
Brethren	79	...	8	2	59	...	...	...	1	...	...	...	...	...	...	1	...	...	1	1	...	1	...	...	...	5	...	...	...	...
Christians	43	...	3	2	...	22	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	1	...	...	1
Christian Science	58	...	13	2	...	...	16	...	...	...	...	...	...	...	1	2	...	...	1	3	...	4	...	...	...	15	...	...	1	...
Church of Christ	46	...	3	5	...	...	...	23	...	1	...	...	...	...	1	...	...	...	...	4	1	2	...	...	...	5	...	...	1	...
Disciples	32	...	6	2	...	...	...	...	6	...	...	...	...	...	...	1	...	...	...	4	1	...	...	...	...	11	...	...	1	...
Evangelicals	114	...	9	5	...	...	...	...	...	47	...	...	...	...	...	18	...	...	1	7	2	4	...	...	...	20	...	...	1	...
Friends	9	...	2	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	1	...	...	...	3	...	...	...	...
Greek Catholics	220	...	4	1	...	...	...	...	...	...	...	166	1	...	...	3	...	...	...	4	...	34	...	...	...	7	...	...	...	...
Greek Orthodox	201	...	6	4	...	...	...	...	...	...	...	4	146	...	1	3	1	...	...	...	...	27	...	...	...	8	...	...	1	...
Holiness Movement	19	...	1	...	...	...	...	...	...	...	...	...	...	15	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...
Jews	655	...	8	1	...	...	...	...	...	...	...	...	...	...	631	1	...	...	...	4	...	6	...	...	...	3	...	...	...	1
Lutherans	847	...	66	23	1	...	1	...	2	12	...	4	2	...	...	503	5	1	...	47	5	65	2	...	...	107	...	...	1	...
Mennonites	152	...	8	3	...	1	...	...	...	3	...	...	...	...	...	6	112	...	...	1	1	6	...	...	...	11	...	...	...	...
Mormons	62	...	13	3	...	...	...	...	...	...	...	...	...	...	...	1	1	21	...	3	1	5	...	...	...	14	...	...	...	...
Pentecostal	134	...	8	1	...	1	...	...	...	...	...	...	1	...	...	...	2	1	103	3	1	1	1	1	...	9	...	1	1	...
Presbyterians	3,484	2	636	178	6	3	8	3	3	8	...	4	3	...	...	40	2	7	6	1519	3	263	11	...	...	758	1	...	20	...
Protestants	642	...	14	4	1	...	...	...	...	...	...	...	1	...	...	8	1	...	1	8	535	51	...	...	...	17	...	...	1	...
Roman Catholics	6,245	...	335	72	...	...	2	1	1	5	...	33	20	...	1	55	...	1	3	130	48	5225	6	...	...	299	...	...	7	1
Salvation Army	126	...	12	5	...	...	...	1	...	...	...	...	...	2	...	...	...	1	...	3	1	2	83	...	...	15	...	...	1	...
Unitarians	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
United Brethren	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
United Church	8,572	5	986	299	2	2	13	4	8	15	...	9	3	3	7	54	5	21	11	490	9	373	15	...	...	6199	...	...	37	2
Oriental religions—(Buddhists, Confucians, Mohammedans, Shintos, Sikhs, Hindus)	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
No religion	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...
Other sects	349	...	36	17	...	...	1	...	...	1	1	...	...	...	...	3	1	...	3	20	...	28	1	...	...	60	...	...	176	1
Not stated	33	...	6	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	4	...	...	...	8	...	...	2	9
Total Brides	30,080	18	5952	1690	78	30	55	38	26	107	5	233	180	20	648	780	137	69	144	2916	619	6644	146	1	...	9221	3	2	302	16

Table 21—Marriages—Birthplace of Bridegrooms and Brides, 1938

Birthplace of Bridegroom	Total	BIRTHPLACE OF BRIDE																																				
		Canada										British Isles					British Possessions		Europe															Asia					
		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Province not specified	England	Ireland	Scotland	Wales	Other	Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland	Roumania	Russia*	Sweden	Other	China	Japan	Other	United States	Various	Not specified
Canada	25,911	10	85	57	504	22762	297	303	86	44	1	687	124	325	22	..	23	7	9	12	5	33	3	9	6	17	17	2	68	8	25	3	22	3	...	4	326	1	1
Prince Edward Island	9	2	...	1	...	5	...	...	...	...	..	1	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nova Scotia	99	..	8	1	3	65	3	2	1	...	..	5	3	2	..	..	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	4	...	...
New Brunswick	73	1	...	7	3	45	5	1	...	...	1	5	...	1	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
Quebec	589	1	5	3	132	383	8	5	2	1	..	19	2	4	..	..	...	...	...	1	...	2	1	...	...	1	...	...	6	...	...	...	...	...	...	...	13	...	...
Ontario	24,391	5	66	40	344	21817	195	219	71	38	..	631	116	305	20	..	22	5	8	10	5	27	1	8	6	15	17	2	56	8	21	3	21	3	...	4	281	...	1
Manitoba	309	..	2	3	13	167	61	15	3	1	..	14	2	8	2	..	...	...	1	...	...	...	1	1	...	...	...	...	1	...	1	...	...	...	...	...	12	1	...
Saskatchewan	288	..	2	2	5	164	17	58	2	2	..	7	...	5	..	..	...	2	...	1	...	3	...	...	...	1	...	...	4	...	2	...	1	...	...	...	10	...	...
Alberta	108	..	2	..	2	83	6	3	5	1	..	2	1	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	...
British Columbia	45	1	...	..	2	33	2	...	2	1	..	3	...	...	..	..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Province not specified	...	..	...	..	...	...	...	...	...	...	..	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
British Isles	2,347	1	16	8	41	1538	31	19	9	3	..	380	59	156	10	..	8	6	2	...	2	1	2	1	3	1	1	...	3	...	...	1	1	1	...	...	43	...	...
England	1,464	1	11	7	27	969	15	10	6	3	..	291	18	54	6	..	5	3	1	...	1	...	1	1	2	1	1	...	2	...	...	1	1	1	...	...	25	...	...
Ireland	246	..	1	1	2	145	6	3	1	...	..	24	33	18	1	..	1	...	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	7	...	...
Scotland	579	..	3	..	9	383	8	5	2	...	..	59	8	81	3	..	2	2	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	11	...	...
Wales	52	..	1	..	3	37	1	1	...	...	..	5	...	3	..	..	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other	6	..	...	..	...	4	1	...	...	...	..	1	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
British Possessions	66	..	1	..	2	45	2	...	...	...	..	3	1	1	..	..	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Newfoundland	33	..	1	..	...	24	...	...	...	...	..	2	1	1	..	..	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other	33	..	...	..	2	21	2	...	...	...	..	1	...	...	..	..	1	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Europe	1,124	..	6	2	14	418	49	29	9	2	1	20	4	9	1	..	1	1	21	11	7	58	...	4	7	41	29	1	174	25	56	4	78	...	...	...	42	...	...
Austria	42	..	1	..	...	13	1	6	1	...	..	...	...	1	..	..	...	...	10	...	...	1	...	1	...	...	...	...	3	2	1	...	...	...	...	...	1	...	...
Belgium	29	..	...	..	1	13	3	...	...	...	..	...	...	...	..	..	...	...	...	9	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...
Denmark	24	..	...	..	...	10	...	...	...	1	..	...	...	...	..	..	...	...	...	...	7	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...
Finland	77	..	...	..	...	27	1	1	...	...	..	...	1	...	..	..	...	...	...	...	...	46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
France	4	..	...	..	...	3	1	...	...	...	..	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Germany	48	..	...	..	...	36	...	...	...	...	..	4	...	2	..	..	...	1	2	...	...	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...
Holland	32	..	...	..	...	13	1	1	...	...	..	5	1	2	..	..	...	...	...	2	...	1	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hungary	51	..	...	..	...	9	...	2	...	...	..	...	...	...	..	..	...	...	...	...	...	...	...	...	...	34	...	...	...	2	2	...	...	...	...	...	2	...	...
Italy	123	..	3	1	1	73	1	...	...	1	..	3	1	...	..	..	1	...	...	...	...	1	...	...	...	...	28	...	1	...	1	...	...	...	...	...	7	...	...
Norway	13	..	...	..	...	7	...	2	...	...	..	2	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...
Poland	313	..	...	..	4	90	27	13	5	...	..	2	...	1	..	..	...	...	1	...	...	...	...	1	...	...	...	...	145	2	8	...	3	...	...	...	11	...	...

Roumania	56	..	...	..	2	17	2	1	...	..	..	1	...	1	1	..	....	....	...	...	...	...	...	...	...	4	...	...	7	14	1	...	2	...	...	...	3	...	...
Russia*	125	..	2	..	1	44	7	2	2	..	1	1	...	2	..	..	....	....	4	...	...	1	...	...	...	...	...	...	11	1	41	...	2	...	...	...	3	...	...
Sweden	23	..	...	..	...	14	2	...	...	..	..	1	...	....	..	..	....	....	...	...	...	2	...	...	..	...	...	1	...	...	...	3	...	...	...	...	...	...	...
Other	164	..	...	1	5	49	3	1	1	..	..	1	1	....	..	..	....	....	4	..	...	3	...	1	...	2	1	...	6	3	1	...	71	...	...	...	10	...	...
Asia	40	..	...	..	3	23	1	...	...	3	..	1	...	1	..	..	....	....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	4	2	...	...
China	19	..	...	..	...	13	...	...	...	3	..	....	...	1	..	..	....	....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...
Japan	2	..	...	..	1	1	...	...	...	..	..	....	...	....	..	..	....	....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other	19	..	...	..	2	9	1	...	...	..	..	1	...	....	..	..	....	....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	4	1	...	...
United States	587	..	1	2	15	405	10	11	7	2	..	24	1	9	..	..	....	1	...	1	...	1	1	...	1	1	3	...	3	1	3	...	2	...	...	1	80	1	...
Various	5	..	...	..	...	4	...	...	...	..	..	....	...	....	..	..	....	....	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Total brides	30,080	11	109	69	579	25195	390	362	111	54	2	1115	189	501	33	..	37	20	32	24	14	93	6	14	17	60	50	3	249	34	84	8	104	5	...	9	494	2	1

*Including the Ukraine.

Table 22—Marriages—Literacy of Bridegrooms and Brides in Ontario, Classified by Birthplace, 1938

Birthplace	Bridegrooms			Brides		
	Total	Illiterate	Per cent. Illiterate	Total	Illiterate	Per cent. Illiterate
Total	30,080	45	0.1	30,080	20	0.1
Canada	25,911	33	0.1	26,882	9	†
Prince Edward Island	9	...	...	11	...	...
Nova Scotia	99	...	...	109	...	...
New Brunswick	73	...	...	69	...	...
Quebec	589	1	0.2	579	2	0.3
Ontario	24,391	32	0.1	25,195	7	†
Manitoba	309	...	...	390	...	...
Saskatchewan	288	...	...	362	...	...
Alberta	108	...	...	111	...	...
British Columbia	45	...	...	54	...	...
Province not specified	...	...	...	2	...	...
British Isles	2,347	...	...	1,838	...	...
England	1,464	...	...	1,115	...	...
Ireland	246	...	...	189	...	...
Scotland	579	...	...	501	...	...
Wales	52	...	...	33	...	...
Other	6	...	...	...	...	...
British Possessions	66	...	...	57	...	...
Newfoundland	33	...	...	37	...	...
Other	33	...	...	20	...	...
Europe	1,124	12	1.1	792	11	1.4
Austria	42	1	2.4	32	1	3.1
Belgium	29	...	...	24	...	...
Denmark	24	...	...	14	...	...
Finland	77	...	...	93	...	...
France	4	...	...	6	...	...
Germany	48	1	2.1	14	...	...
Holland	32	...	...	17	...	...
Hungary	51	1	2.0	60	1	1.7
Italy	123	...	...	50	...	...
Norway	13	...	...	3	...	...
Poland	313	7	2.2	249	8	3.2
Roumania	56	...	...	34	...	...
Russia*	125	1	0.8	84	...	...
Sweden	23	...	...	8	...	...
Other	164	1	0.6	104	1	1.0
Asia	40	...	...	14	...	...
China	19	...	...	5	...	...
Japan	2	...	...	...	...	...
Other	19	...	...	9	...	...
United States	587	...	...	494	...	...
Various	5	...	...	2	...	...
Not specified	...	...	...	1	...	...

* Including the Ukraine. † Less than one-tenth of one per cent.

Table 23—Deaths of Children under One Year (exclusive of Stillbirths) in Ontario, by Months, Classified as Rural and Urban, 1938

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Ontario	**3,245**	**282**	**260**	**313**	**286**	**271**	**250**	**234**	**262**	**308**	**279**	**227**	**273**
Rural	961	101	88	107	89	68	57	67	67	92	66	65	94
Urban	2,284	181	172	206	197	203	193	167	195	216	213	162	179
Addington	4	1	....	2	1	....	....	....	....	....	....	....	....
Rural	4	1	....	2	1	....	....	....	....	....	....	....	....
Algoma	68	4	5	2	7	9	7	6	8	9	5	....	6
Rural	10	1	....	....	1	1	3	....	1	2	....	....	1
Urban	58	3	5	2	6	8	4	6	7	7	5	....	5
Sault Ste. Marie, c.	37	2	5	2	5	5	3	3	5	3	2	....	2
Blind River, t.	14	1	....	....	....	3	....	2	2	2	2	....	2
Thessalon, t.	7	....	....	....	1	....	1	1	....	2	1	....	1
Brant	48	6	5	6	5	5	2	1	3	5	2	2	6
Rural	13	3	....	2	2	2	....	....	1	1	....	2	....
Urban	35	3	5	4	3	3	2	1	2	4	2	....	6
Brantford, c.	33	3	5	4	3	3	1	1	2	3	2	....	6
Paris, t.	2	....	....	....	....	....	1	....	....	1	....	....	....
Bruce	39	4	....	3	7	3	1	3	3	8	5	2	....
Rural	29	2	....	2	6	3	....	1	3	7	4	1	....
Urban	10	2	....	1	1	....	1	2	....	1	1	1	....
Chesley, t.	....	....	....	....	....	....	....	....	....	....	....	....	....
Kincardine, t.	2	2	....	....	....	....	....	....	....	....	....	....	....
Southampton, t.	1	....	....	1	....	....	....	....	....	....	....	....	....
Walkerton, t.	4	....	....	....	1	....	....	1	....	1	....	1	....
Wiarton, t.	2	....	....	....	....	....	1	1	....	....	....	....	....
Lucknow, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Port Elgin, vl.	1	....	....	....	....	....	....	....	....	....	1	....	....
Carleton	211	23	17	11	16	21	22	13	19	17	24	16	12
Rural	11	....	1	1	3	1	1	....	1	1	1	1	....
Urban	200	23	16	10	13	20	21	13	18	16	23	15	12
Ottawa, c.	191	21	16	9	12	20	19	13	17	16	23	14	11
Eastview, t.	9	2	....	1	1	....	2	....	1	....	....	1	1
Rockcliffe Park, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Cochrane	134	12	13	13	15	9	6	3	16	11	13	11	12
Rural	56	7	7	7	7	3	1	1	7	3	5	6	2
Urban	78	5	6	6	8	6	5	2	9	8	8	5	10
Cochrane, t.	9	1	1	2	2	....	....	....	1	....	1	1	....
Iroquois Falls, t.	3	....	....	1	....	1	1	....	....	....	....	....	....
Kapuskasing, t.	9	....	2	....	2	3	1	....	1	....	....	....	....
Timmins, t.	57	4	3	3	4	2	3	2	7	8	7	4	10
Dufferin	12	2	....	2	....	1	1	....	2	1	1	2	....
Rural	6	2	....	1	....	....	....	....	1	....	....	2	....
Urban	6	....	....	1	....	1	1	....	1	1	1	....	....
Orangeville, t.	5	....	....	1	....	1	....	....	1	1	1	....	....
Shelburne, vl.	1	....	....	....	....	....	1	....	....	....	....	....	....
Dundas	18	....	1	3	1	....	2	2	1	3	2	1	2
Rural	16	....	1	3	1	....	1	2	....	3	2	1	2
Urban	2	....	....	....	....	....	1	....	1	....	....	....	....
Chesterville, vl.	1	....	....	....	....	....	....	....	1	....	....	....	....
Iroquois, vl.	1	....	....	....	....	....	1	....	....	....	....	....	....
Morrisburg, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Winchester, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Durham	24	2	3	3	3	5	1	2	2	1	1	....	1
Rural	8	1	1	1	3	....	....	....	1	1	....	....	....
Urban	16	1	2	2	....	5	1	2	1	....	1	....	1
Bowmanville, t.	11	1	2	2	....	4	1	....	....	....	....	....	1
Port Hope, t.	5	....	....	....	....	1	....	2	1	....	1	....	....
Elgin	27	4	1	1	2	2	....	5	2	1	3	1	5
Rural	9	1	1	....	1	....	....	....	1	1	1	1	2
Urban	18	3	....	1	1	2	....	5	1	....	2	....	3
St. Thomas, c.	18	3	....	1	1	2	....	5	1	....	2	....	3
Aylmer, t.	....	....	....	....	....	....	....	....	....	....	....	....	....
Essex	122	7	9	11	18	7	11	8	10	11	9	13	8
Rural	29	3	2	....	4	3	4	3	1	1	2	3	3
Urban	93	4	7	11	14	4	7	5	9	10	7	10	5
Windsor, c.	79	4	3	11	12	4	6	4	7	8	6	9	5
Amherstburg, t.	4	....	1	....	....	....	....	....	1	....	1	1	....
Essex, t.	1	....	....	....	....	....	....	1	....	....	....	....	....
Kingsville, t.	1	....	....	....	1	....	....	....	....	....	....	....	....
Leamington, t.	7	....	3	....	1	....	....	....	1	2	....	....	....
Riverside, t.	....	....	....	....	....	....	....	....	....	....	....	....	....
Tecumseh, t.	1	....	....	....	....	....	1	....	....	....	....	....	....
Frontenac	62	4	5	8	7	10	3	4	4	5	4	1	7
Rural	12	....	1	2	3	2	1	1	....	1	....	....	1
Urban	50	4	4	6	4	8	2	3	4	4	4	1	6
Kingston, c.	50	4	4	6	4	8	2	3	4	4	4	1	6
Portsmouth, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Glengarry	13	1	1	2	1	1	1	4	....	....	....	....	2
Rural	11	1	1	2	....	1	....	4	....	....	....	....	2
Urban	2	....	....	....	1	....	1	....	....	....	....	....	....
Alexandria, t.	2	....	....	....	1	....	1	....	....	....	....	....	....

Table 23—Deaths of Children under One Year (exclusive of Stillbirths) in Ontario, by Months, Classified as Rural and Urban, 1938—Continued

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Grenville	12		2	2	1	2	1	1			1	1	1
Rural	10		2	2		2	1	1			1	1	
Urban	2				1								1
Prescott, t.													
Cardinal, vl.	1				1								
Kemptville, vl.	1												1
Grey	44	4	1	6	4	2	2	3	4	4	4	5	5
Rural	21	4		3	3	1	1		1	1		3	4
Urban	23		1	3	1	1	1	3	3	3	4	2	1
Owen Sound, c.	17		1	1		1	1	2	1	3	4	2	1
Durham, t.	1			1									
Hanover, t.	3				1			1	1				
Meaford, t.	2			1					1				
Haldimand	7		2				2			1		1	1
Rural	5		2				1					1	1
Urban	2						1			1			
Dunnville, t.	1						1						
Caledonia, vl.	1									1			
Hagersville, vl.													
Haliburton	8		2					1	2		2		1
Rural	8		2					1	2		2		1
Halton	4			1		1				1		1	
Rural	1									1			
Urban	3			1		1						1	
Burlington, t.	1											1	
Georgetown, t.	1			1									
Milton, t.													
Oakville, t.	1					1							
Acton, vl.													
Hastings	64	5	6	7	6	4	2	3	7	7	5	7	5
Rural	29	3	4	4	1	2	1	2	1	2	3	4	2
Urban	35	2	2	3	5	2	1	1	6	5	2	3	3
Belleville, c.	24	2	2	1	3	1	1	1	3	3	2	2	3
Deseronto, t.	1											1	
Trenton, t.	7			1	1	1			3	1			
Madoc, vl.	1			1									
Tweed, vl.	2				1					1			
Huron	31	5	8	3	1	3	1	2	1	1	2	2	2
Rural	19	2	4	2		2	1	2			2	2	2
Urban	12	3	4	1	1	1			1	1			
Clinton, t.	1	1											
Goderich, t.	2	1							1				
Seaforth, t.	5		3		1	1							
Wingham, t.	4	1	1	1						1			
Exeter, vl.													
Kenora, including Patricia	53	9	6	10	4	3	3	5	1	2	5	3	2
Rural	16	3	3	4	1	2		1	1	1			
Urban	37	6	3	6	3	1	3	4		1	5	3	2
Dryden, t.	14	2	1	3	2			2			2	2	
Keewatin, t.													
Kenora, t.	16	3	2	2	1	1	2	2				1	2
Sioux Lookout, t.	7	1		1			1			1	3		
Kent	81	4	9	12	8	5	8	1	9	10	5	7	3
Rural	17		4	2		2	1		2	3	1	1	1
Urban	64	4	5	10	8	3	7	1	7	7	4	6	2
Chatham, c.	59	4	5	10	7	3	5	1	6	7	3	6	2
Blenheim, t.													
Dresden, t.	1						1						
Ridgetown, t.													
Tilbury, t.	2						1		1				
Wallaceburg, t.	2				1						1		
Lambton	44	4	2	4	1	5	3	6	5	5	4	4	1
Rural	19	1	2	3	1	2		2	2	2	1	2	1
Urban	25	3		1		3	3	4	3	3	3	2	
Sarnia, c.	21	3		1		2	3	3	1	3	3	2	
Forest, t.													
Petrolia, t.	4					1		1	2				
Point Edward, vl.													
Lanark	24	2		3		2	2	3	2	1	2		7
Rural	6	1		1				1			1		2
Urban	18	1		2		2	2	2	2	1	1		5
Almonte, t.	2							2					
Carleton Place, t.	2	1				1							
Perth, t.	7			1		1	1		2				2
Smiths Falls, t.	7			1			1			1	1		3
Leeds	32	2	2	1	2	4	1	2	4	8	2		4
Rural	13	1		1	2	2		1	2	2	1		1
Urban	19	1	2			2	1	1	2	6	1		3
Brockville, t.	19	1	2			2	1	1	2	6	1		3
Gananoque, t.													
Lennox	3	1						1				1	
Rural	2							1				1	
Urban	1	1											
Napanee, t.	1	1											

Table 23—Deaths of Children under One Year (exclusive of Stillbirths) in Ontario, by Months, Classified as Rural and Urban, 1938—Continued

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Lincoln	46	4	3	4	4	5	4	4	7	4	3	1	3
Rural	4	1	....	1	....	1	....	1	....	....	....	....	....
Urban	42	3	3	3	4	4	4	3	7	4	3	1	3
St. Catharines, c.	33	2	3	3	4	2	4	3	5	2	1	1	3
Grimsby, t.	3	....	....	....	....	1	....	....	....	1	1	....	....
Merritton, t.	1	....	....	....	....	....	....	....	....	....	1	....	....
Niagara, t.	3	....	....	....	....	1	....	....	2	....	....	....	....
Beamsville, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Port Dalhousie, vl.	2	1	....	....	....	....	....	....	....	1	....	....	....
Manitoulin	21	4	....	4	1	1	3	....	2	2	3	....	1
Rural	18	4	....	4	1	1	1	....	2	2	2	....	1
Urban	3	....	....	....	....	....	2	....	....	....	1	....	....
Little Current, t.	3	....	....	....	....	....	2	....	....	....	1	....	....
Middlesex	85	8	11	5	11	4	10	5	6	8	4	7	6
Rural	11	2	....	1	1	....	....	1	2	1	1	1	1
Urban	74	6	11	4	10	4	10	4	4	7	3	6	5
London, c.	72	6	11	4	10	4	10	4	3	7	3	6	4
Parkhill, t.	....	....	....	....	....	....	....	....	....	....	....	....	....
Strathroy, t.	2	....	....	....	....	....	....	....	1	....	....	....	1
Muskoka	27	5	6	1	2	1	....	....	2	1	3	1	5
Rural	15	4	2	1	2	....	....	....	1	1	1	1	2
Urban	12	1	4	....	....	1	....	....	1	....	2	....	3
Bracebridge, t.	6	1	1	....	....	1	....	....	....	....	2	....	1
Gravenhurst, t.	5	....	2	....	....	....	....	....	1	....	....	....	2
Huntsville, t.	1	....	1	....	....	....	....	....	....	....	....	....	....
Nipissing	85	6	7	6	9	7	7	11	8	9	4	5	6
Rural	29	3	3	3	4	....	1	6	2	2	1	2	2
Urban	56	3	4	3	5	7	6	5	6	7	3	3	4
North Bay, c.	28	3	4	1	....	6	2	3	1	3	2	2	1
Cache Bay, t.	1	....	....	....	1	....	....	....	....	....	....	....	....
Mattawa, t.	9	....	....	1	1	1	....	1	1	2	1	....	1
Sturgeon Falls, t.	18	....	....	1	3	....	4	1	4	2	....	1	2
Norfolk	26	....	1	3	3	3	5	1	2	5	2	....	1
Rural	7	....	....	1	2	3	....	....	....	....	1	....	....
Urban	19	....	1	2	1	....	5	1	2	5	1	....	1
Simcoe, t.	16	....	....	2	1	....	5	....	2	4	1	....	1
Delhi, vl.	2	....	1	....	....	....	....	1	....	....	....	....	....
Port Dover, vl.	1	....	....	....	....	....	....	....	....	1	....	....	....
Waterford, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Northumberland	25	2	....	3	4	4	....	2	4	1	....	3	2
Rural	10	2	....	1	3	1	....	....	1	....	....	1	1
Urban	15	....	....	2	1	3	....	2	3	1	....	2	1
Campbellford, t.	5	....	....	1	....	1	....	....	2	....	....	1	....
Cobourg, t.	7	....	....	1	....	1	....	2	1	....	....	1	1
Brighton, vl.	2	....	....	....	....	1	....	....	....	1	....	....	....
Colborne, vl.	1	....	....	....	1	....	....	....	....	....	....	....	....
Ontario	40	1	7	3	2	4	4	3	3	3	4	2	4
Rural	10	....	....	2	....	1	1	2	....	1	1	....	2
Urban	30	1	7	1	2	3	3	1	3	2	3	2	2
Oshawa, c.	29	1	7	1	2	2	3	1	3	2	3	2	2
Uxbridge, t.	1	....	....	....	....	1	....	....	....	....	....	....	....
Whitby, t.	....	....	....	....	....	....	....	....	....	....	....	....	....
Port Perry, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Oxford	39	....	....	3	6	1	1	4	3	3	7	5	6
Rural	13	....	....	....	2	1	....	2	1	2	1	2	2
Urban	26	....	....	3	4	....	1	2	2	1	6	3	4
Woodstock, c.	14	....	....	1	1	....	1	1	1	1	3	3	2
Ingersoll, t.	5	....	....	1	3	....	....	....	....	....	....	....	1
Tillsonburg, t.	6	....	....	1	....	....	....	1	1	....	3	....	....
Norwich, vl.	1	....	....	....	....	....	....	....	....	....	....	....	1
Tavistock, vl.	....	....	....	....	....	....	....	....	....	....	....	....	....
Parry Sound	29	3	2	3	3	1	1	3	2	4	3	2	2
Rural	23	3	2	3	2	1	....	1	2	4	2	2	1
Urban	6	....	....	....	1	....	1	2	....	....	1	....	1
Parry Sound, t.	6	....	....	....	1	....	1	2	....	....	1	....	1
Peel	21	2	3	1	....	2	1	1	3	2	....	1	5
Rural	12	1	1	1	....	2	1	1	1	....	....	....	4
Urban	9	1	2	....	....	....	....	....	2	2	....	1	1
Brampton, t.	8	1	1	....	....	....	....	....	2	2	....	1	1
Port Credit, vl.	1	....	1	....	....	....	....	....	....	....	....	....	....
Perth	27	4	1	3	5	4	3	....	1	2	3	....	1
Rural	6	1	1	....	1	....	1	....	....	1	1	....	....
Urban	21	3	....	3	4	4	2	....	1	1	2	....	1
Stratford, c.	14	2	....	1	3	1	2	....	1	1	2	....	1
Listowel, t.	4	....	....	....	1	3	....	....	....	....	....	....	....
Mitchell, t.	2	....	....	2	....	....	....	....	....	....	....	....	....
St. Mary's, t.	....	....	....	....	....	....	....	....	....	....	....	....	....
Milverton, vl.	1	1	....	....	....	....	....	....	....	....	....	....	....
Peterborough	43	3	1	5	2	7	6	4	2	2	1	5	5
Rural	8	....	....	3	....	1	1	2	....	....	1	....	....
Urban	35	3	1	2	2	6	5	2	2	2	....	5	5
Peterborough, c.	31	2	1	2	2	6	5	2	2	1	....	4	4
Havelock, vl.	3	....	....	....	....	....	....	....	....	1	....	1	1
Lakefield, vl.	1	1	....	....	....	....	....	....	....	....	....	....	....

Table 23—Deaths of Children under One Year (exclusive of Stillbirths) in Ontario, by Months, Classified as Rural and Urban, 1938—Continued

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Prescott	66	11	5	11	5	6	7	4	2	4	2	4	5
Rural	41	8	4	6	5	4	4	2		1	1	2	4
Urban	25	3	1	5		2	3	2	2	3	1	2	1
Hawkesbury, t.	20	2		5		2	3	2	1	1	1	2	1
Vankleek Hill, t.	2									2			
L'Orignal, vl.	3	1	1						1				
Prince Edward	15	1	4			3		3		1	2	1	
Rural	4		1			1					2		
Urban	11	1	3			2		3		1		1	
Picton, t.	11	1	3			2		3		1		1	
Rainy River	33	4	2	3	5	3	3	1	5	5	1		1
Rural	21	3	1	3	4	1	1		3	3	1		1
Urban	12	1	1		1	2	2	1	2	2			
Fort Francis, t.	8	1			1	1	1	1	1	2			
Rainy River, t	4		1			1	1		1				
Renfrew	67	10	7	5	7	8	6	4	1	7	2	3	7
Rural	34	4	3	3	4	4	2	2	1	5	1	1	4
Urban	33	6	4	2	3	4	4	2		2	1	2	3
Arnprior, t.	2			1	1								
Pembroke, t.	26	5	3	1	2	4	3	1		2	1	2	2
Renfrew, t.	4	1					1	1					1
Barry's Bay, vl.	1		1										
Eganville, vl.													
Russell	32	5	4	2	1	1	3	2	3		3	3	5
Rural	29	4	3	2	1	1	2	2	3		3	3	5
Urban	3	1	1				1						
Rockland, t.	3	1	1				1						
Simcoe	79	6	4	7	4	8	10	5	5	8	11	4	7
Rural	23			1	1	3	4	1	1	4	3	1	4
Urban	56	6	4	6	3	5	6	4	4	4	8	3	3
Alliston, t.	4		1				1		1		1		
Barrie, t.	5			2				1		1		1	
Collingwood, t.	8	1			1		1	1	1	1	1	1	
Midland, t.	14	3	1	2	1			2	1	1	1		2
Orillia, t.	17	2	2	2	1	2	4		1		2		1
Penetanguishene, t.	7					2				1	3	1	
Stayner, t.													
Victoria Harbour, vl.	1					1							
Stormont	52	6	6	3	2	6	3	2	3	6	5	4	6
Rural	23	2	2	2	1	1	2	2	2	3	1	2	3
Urban	29	4	4	1	1	5	1		1	3	4	2	3
Cornwall, t.	29	4	4	1	1	5	1		1	3	4	2	3
Sudbury	163	14	12	13	9	13	9	9	11	20	15	19	19
Rural	85	9	11	6	4	6	5	5	4	10	6	8	11
Urban	78	5	1	7	5	7	4	4	7	10	9	11	8
Sudbury, c.	74	5	1	7	5	7	4	3	7	10	9	10	6
Capreol, t.	1											1	
Coniston, t.	3							1					2
Coppercliff, t.													
Thunder Bay	75	5	6	9	7	1	2	4	10	9	9	1	12
Rural	14	1	2	2	1			1	2	4			1
Urban	61	4	4	7	6	1	2	3	8	5	9	1	11
Fort William, c.	21	3	1	3	5	1	1	2	2		2		1
Port Arthur, c.	40	1	3	4	1		1	1	6	5	7	1	10
Timiskaming	70	2	3	4	4	5	4	12	7	5	9	11	4
Rural	21	1	2	2	1	2	2	2	2	1		4	2
Urban	49	1	1	2	3	3	2	10	5	4	9	7	2
Cobalt, t.	3									2			1
Englehart, t.	2							1	1				
Haileybury, t.	9			2				1	1		3	2	
New Liskeard, t.	1									1			
Kirkland Lake	34	1	1		3	3	2	8	3	1	6	5	1
Victoria	22	1	2	3	1	2		2	5	4	2		
Rural	7	1	1	2					2	1			
Urban	15		1	1	1	2		2	3	3	2		
Lindsay, t.	15		1	1	1	2		2	3	3	2		
Waterloo	78	5	4	11	7	4	9	8	5	7	6	5	7
Rural	13	1		1			4	1	1		2		3
Urban	65	4	4	10	7	4	5	7	4	7	4	5	4
Galt, c.	14	1		5	1	1	2	3	1				
Kitchener, c.	46	3	3	5	6	3	2	3	3	6	4	4	4
Elmira, t.	1						1						
Hespeler, t.													
Preston, t.	1		1										
Waterloo, t.	3							1		1		1	
New Hamburg, vl.													
Welland	58	6	5	11	6	2	3	7	1	4	8	2	3
Rural	13	1	1	2	3		1	2		1			2
Urban	45	5	4	9	3	2	2	5	1	3	8	2	1
Niagara Falls, c.	17		3	4			1		1	2	4	1	1
Welland, c.	18	4	1	4	2	1	1	3			2		
Fort Erie, t.	3					1		1				1	
Port Colborne, t.	4				1			1		1	1		
Thorold, t.	3	1		1							1		
Chippawa, vl.													
Humberstone, vl.													

Table 23—Deaths of Children under One Year (exclusive of Stillbirths) in Ontario, by Months, Classified as Rural and Urban, 1938—Continued

	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Wellington	41	2	5	4	6	1	5	1	1	5	5	1	5
Rural	19	1	1	1	3	1	3	1	1	3	2	.....	2
Urban	22	1	4	3	3	.....	2	.....	.....	2	3	1	3
Guelph, c.	12	1	2	1	1	.....	2	.....	.....	.....	2	1	2
Harriston, t.	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mount Forest, t.	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palmerston, t.	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Arthur, vl.	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Elora, vl.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fergus, vl.	6	.....	2	.....	1	.....	.....	.....	.....	1	1	.....	1
Wentworth	125	12	11	20	11	10	7	10	11	15	5	7	6
Rural	11	.....	.....	3	.....	.....	.....	2	2	2	.....	.....	2
Urban	114	12	11	17	11	10	7	8	9	13	5	7	4
Hamilton, c.	112	12	11	16	11	9	7	8	9	13	5	7	4
Dundas	2	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
York	566	44	38	47	49	50	52	43	42	50	56	49	46
Rural	57	7	9	5	3	1	4	4	3	7	5	3	6
Urban	509	37	29	42	46	49	48	39	39	43	51	46	40
Toronto, c.	500	37	29	41	46	47	48	38	38	41	50	45	40
Aurora, t.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Long Branch, t.	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Mimico, t.	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newmarket, t.	3	.....	.....	.....	.....	1	.....	.....	1	.....	1	.....	.....
New Toronto, t.	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Weston, t.	2	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....
Forest Hill, vl.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Markham, vl.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Richmond Hill, vl.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stouffville, vl.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Swansea, vl.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Table 24—Total Deaths (exclusive of Stillbirths) and Deaths in Institutions of Children Under One Year of Age, Showing the Number Non-Resident in the Province of Ontario, 1938

	All Deaths under One Year						In Institutions					
	Total			Non-resident in Province			Total			Non-resident in Province		
	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.
Total for the Province	3,245	1,850	1,395	22	13	9	1,729	994	735	19	12	7

Table 25—Total Deaths (exclusive of Stillbirths) and Deaths in Institutions of Cities, Towns and Villages of Ontario

Cities, Towns and Villages	All Deaths Under One Year												Deaths		
	Total			Residents			Non-resident in City, Town or Village where Death Occurred and						Total		
							Resident in Province			Non-resident in Province					
	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.
Cities:															
Belleville	24	12	12	10	5	5	14	7	7	....	....	....	19	9	10
Brantford	33	14	19	25	10	15	8	4	4	....	....	....	29	11	18
Chatham	59	41	18	22	13	9	37	28	9	....	....	....	49	35	14
Fort William	21	14	7	15	8	7	6	6	....	....	....	....	17	12	5
Galt	14	5	9	12	4	8	2	1	1	....	....	....	11	4	7
Guelph	12	10	2	7	6	1	5	4	1	....	....	....	9	8	1
Hamilton	112	64	48	91	52	39	21	12	9	....	....	....	94	56	38
Kingston	50	26	24	31	15	16	19	11	8	....	....	....	47	26	21
Kitchener	46	31	15	27	17	10	19	14	5	....	....	....	43	30	13
London	72	42	30	37	21	16	35	21	14	....	....	....	67	40	27
Niagara Falls	17	14	3	14	11	3	3	3	....	....	....	....	15	13	2
North Bay	28	15	13	18	8	10	10	7	3	....	....	....	19	10	9
Oshawa	29	22	7	23	16	7	6	6	....	....	....	....	21	16	5
Ottawa	191	110	81	148	82	66	30	21	9	13	7	6	171	96	75
Owen Sound	17	9	8	11	4	7	6	5	1	....	....	....	12	8	4
Peterborough	31	14	17	22	12	10	9	2	7	....	....	....	25	9	16
Port Arthur	40	22	18	26	15	11	14	7	7	....	....	....	36	20	16
St. Catharines	33	16	17	16	6	10	17	10	7	....	....	....	27	14	13
St. Thomas	18	10	8	15	7	8	3	3	....	....	....	....	13	9	4
Sarnia	21	11	10	15	8	7	6	3	3	....	....	....	17	8	9
Sault Ste. Marie	37	25	12	27	18	9	10	7	3	....	....	....	22	15	7
Stratford	14	9	5	12	7	5	2	2	....	....	....	....	13	9	4
Sudbury	74	48	26	53	34	19	21	14	7	....	....	....	45	30	15
Toronto	500	281	219	379	210	169	120	70	50	1	1	....	426	235	191
Welland	18	8	10	10	6	4	8	2	6	....	....	....	12	4	8
Windsor	79	46	33	64	38	26	15	8	7	....	....	....	61	36	25
Woodstock	14	9	5	10	7	3	4	2	2	....	....	....	10	6	4
Towns:															
Barrie	5	1	4	4	1	3	1	....	1	....	....	....	3	....	3
Brampton	8	5	3	5	3	2	3	2	1	....	....	....	6	5	1
Brockville	19	12	7	11	5	6	8	7	1	....	....	....	15	11	4
Cobourg	7	5	2	5	3	2	2	2	....	....	....	....	6	4	2
Collingwood	8	6	2	4	4	....	4	2	2	....	....	....	6	4	2
Cornwall	29	18	11	21	12	9	7	5	2	1	1	....	26	15	11
Eastview	9	4	5	9	4	5	....	....	....	....	....	....	....	....	....
Fort Erie	3	1	2	3	1	2	....	....	....	....	....	....	3	1	2
Fort Francis	8	5	3	7	4	3	1	1	....	....	....	....	1	1	....
Hawkesbury	20	11	9	18	9	9	....	....	....	2	2	....	5	2	3
Ingersoll	5	4	1	4	3	1	1	1	....	....	....	....	2	2	....
Kenora	16	12	4	12	8	4	4	4	....	....	....	....	14	10	4
Leamington	7	5	2	5	3	2	2	2	....	....	....	....	4	3	1
Lindsay	15	8	7	7	5	2	8	3	5	....	....	....	13	7	6
Midland	14	6	8	9	5	4	5	1	4	....	....	....	9	4	5
Mimico	1	1	....	....	....	....	1	1	....	....	....	....	1	1	....
New Toronto	1	....	1	1	....	1	....	....	....	....	....	....	....	....	....
Orillia	17	9	8	7	4	3	10	5	5	....	....	....	14	6	8
Pembroke	26	15	11	15	9	6	10	5	5	1	1	....	18	10	8
Port Colborne	4	3	1	4	3	1	....	....	....	....	....	....	....	....	....
Preston	1	....	1	1	....	1	....	....	....	....	....	....	....	....	....
Renfrew	4	3	1	3	2	1	1	1	....	....	....	....	2	1	1
Riverside	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Simcoe	16	8	8	5	1	4	11	7	4	....	....	....	14	8	6
Smiths Falls	7	3	4	4	1	3	3	2	1	....	....	....	3	2	1
Thorold	3	1	2	3	1	2	....	....	....	....	....	....	1	....	1
Timmins	57	29	28	53	25	28	4	4	....	....	....	....	17	8	9
Trenton	7	1	6	7	1	6	....	....	....	....	....	....	....	....	....
Waterloo	3	1	2	3	1	2	....	....	....	....	....	....	....	....	....
Weston	2	....	2	1	....	1	1	....	1	....	....	....	....	....	....
Whitby	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Villages:															
Forest Hill	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Kirkland Lake	34	16	18	30	15	15	4	1	3	....	....	....	24	11	13
Swansea	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Children under One Year of Age, Classified according to Residence of Decedents in of 5,000 Population and Over, 1938

in Institutions												Deaths Elsewhere than in Institutions											
Residents			Mothers Non-resident in City, Town or Village Where Death Occurred and						Total			Residents			Mothers Non-resident in City, Town or Village Where Death Occurred and					
			Resident in Province			Non-resident in Province									Resident in Province			Non-resident in Province		
Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.
6	3	3	13	6	7	....	....	....	5	3	2	4	2	2	1	1	....	....	....	....
21	7	14	8	4	4	....	....	....	4	3	1	4	3	1	....	....	....	....	....	....
13	8	5	36	27	9	....	....	....	10	6	4	9	5	4	1	1	....	....	....	....
13	8	5	4	4	....	....	....	....	4	2	2	2	....	2	2	2	....	....	....	....
9	3	6	2	1	1	....	....	....	3	1	2	3	1	2	....	....	....	....	....	....
4	4	....	5	4	1	....	....	....	3	2	1	3	2	1	....	....	....	....	....	....
73	44	29	21	12	9	....	....	....	18	8	10	18	8	10	....	....	....	....	....	....
28	15	13	19	11	8	....	....	....	3	....	3	3	....	3	....	....	....	....	....	....
24	16	8	19	14	5	....	....	....	3	1	2	3	1	2	....	....	....	....	....	....
32	19	13	35	21	14	....	....	....	5	2	3	5	2	3	....	....	....	....	....	....
12	10	2	3	3	....	....	....	....	2	1	1	2	1	1	....	....	....	....	....	....
10	4	6	9	6	3	....	....	....	9	5	4	8	4	4	1	1	....	....	....	....
16	11	5	5	5	....	....	....	....	8	6	2	7	5	2	1	1	....	....	....	....
129	68	61	29	21	8	13	7	6	20	14	6	19	14	5	1	....	1	....	....	....
6	3	3	6	5	1	....	....	....	5	1	4	5	1	4	....	....	....	....	....	....
16	7	9	9	2	7	....	....	....	6	5	1	6	5	1	....	....	....	....	....	....
22	13	9	14	7	7	....	....	....	4	2	2	4	2	2	....	....	....	....	....	....
10	4	6	17	10	7	....	....	....	6	2	4	6	2	4	....	....	....	....	....	....
10	6	4	3	3	....	....	....	....	5	1	4	5	1	4	....	....	....	....	....	....
11	5	6	6	3	3	....	....	....	4	3	1	4	3	1	....	....	....	....	....	....
12	8	4	10	7	3	....	....	....	15	10	5	15	10	5	....	....	....	....	....	....
11	7	4	2	2	....	....	....	....	1	....	1	1	....	1	....	....	....	....	....	....
26	17	9	19	13	6	....	....	....	29	18	11	27	17	10	2	1	1	....	....	....
305	164	141	120	70	50	1	1	....	74	46	28	74	46	28	....	....	....	....	....	....
4	2	2	8	2	6	....	....	....	6	4	2	6	4	2	....	....	....	....	....	....
46	28	18	15	8	7	....	....	....	18	10	8	18	10	8	....	....	....	....	....	....
6	4	2	4	2	2	....	....	....	4	3	1	4	3	1	....	....	....	....	....	....
2	....	2	1	....	1	....	....	....	2	1	1	2	1	1	....	....	....	....	....	....
3	3	....	3	2	1	....	....	....	2	....	2	2	....	2	....	....	....	....	....	....
7	4	3	8	7	1	....	....	....	4	1	3	4	1	3	....	....	....	....	....	....
4	2	2	2	2	....	....	....	....	1	1	....	1	1	....	....	....	....	....	....	....
2	2	....	4	2	2	....	....	....	2	2	....	2	2	....	....	....	....	....	....	....
19	10	9	6	4	2	1	1	....	3	3	....	2	2	....	1	1	....	....	....	....
....	....	....	....	....	....	....	....	....	9	4	5	9	4	5	....	....	....	....	....	....
3	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	1	1	....	....	....	....	7	4	3	7	4	3	....	....	....	....	....	....
3	....	3	....	....	....	2	2	....	15	9	6	15	9	6	....	....	....	....	....	....
1	1	....	1	1	....	....	....	....	3	2	1	3	2	1	....	....	....	....	....	....
10	6	4	4	4	....	....	....	....	2	2	....	2	2	....	....	....	....	....	....	....
2	1	1	2	2	....	....	....	....	3	2	1	3	2	1	....	....	....	....	....	....
5	4	1	8	3	5	....	....	....	2	1	1	2	1	1	....	....	....	....	....	....
4	3	1	5	1	4	....	....	....	5	2	3	5	2	3	....	....	....	....	....	....
....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	1	....	1	1	....	1	....	....	....	....	....	....
4	1	3	10	5	5	....	....	....	3	3	....	3	3	....	....	....	....	....	....	....
8	5	3	9	4	5	1	1	....	8	5	3	7	4	3	1	1	....	....	....	....
....	....	....	....	....	....	....	....	....	4	3	1	4	3	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	1	....	1	1	....	1	....	....	....	....	....	....
1	....	1	1	1	....	....	....	....	2	2	....	2	2	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	1	2	11	7	4	....	....	....	2	....	2	2	....	2	....	....	....	....	....	....
1	....	1	2	2	....	....	....	....	4	1	3	3	1	2	1	....	1	....	....	....
1	....	1	....	....	....	....	....	....	2	1	1	2	1	1	....	....	....	....	....	....
14	5	9	3	3	....	....	....	....	40	21	19	39	20	19	1	1	....	....	....	....
....	....	....	....	....	....	....	....	....	7	1	6	7	1	6	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	3	1	2	3	1	2	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	2	....	2	1	....	1	1	....	1	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
21	11	10	3	....	3	....	....	....	10	5	5	9	4	5	1	1	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Table 26—Deaths of Children under One Year (exclusive of Stillbirths), by Age at Death, in the Province of Ontario, 1938

Ages		Total
All infants		3,245
	M.	1,850
	F.	1,395
Under 1 day		831
	M.	488
	F.	343
1 day		252
	M.	151
	F.	101
2 days		161
	M.	92
	F.	69
3 days		114
	M.	53
	F.	61
4 days		86
	M.	54
	F.	32
5 days		44
	M.	22
	F.	22
6 days		44
	M.	24
	F.	20
Under 1 week		1,532
	M.	884
	F.	648
1 week and under 2 weeks		146
	M.	82
	F.	64
2 weeks and under 3 weeks		128
	M.	63
	F.	65
3 weeks and under 1 month		81
	M.	43
	F.	38
Under 1 month		1,887
	M.	1,072
	F.	815
1 month and under 2 months		241
	M.	142
	F.	99
2 months and under 3 months		222
	M.	134
	F.	88
3 months and under 4 months		181
	M.	92
	F.	89
4 months and under 5 months		124
	M.	79
	F.	45
5 months and under 6 months		124
	M.	71
	F.	53
6 months and under 7 months		99
	M.	65
	F.	34
7 months and under 8 months		72
	M.	40
	F.	32
8 months and under 9 months		93
	M.	47
	F.	46
9 months and under 10 months		78
	M.	42
	F.	36
10 months and under 11 months		60
	M.	30
	F.	30
11 months and under 12 months		64
	M.	36
	F.	28

Table 27—Deaths of Children under One Year of Age (exclusive of Stillbirths) Classified According to Racial Origin of Decedents, in the Province of Ontario, 1938

Racial Origins	Total
All origins	3,245
English	1,104
Irish	461
Scottish	340
Welsh	15
French	680
Armenian	1
Austrian	14
Belgian	7
Bulgarian	3
Chinese	2
Czech and Slovak	19
Danish	2
Dutch	38
Finish	19
German	127
Greek	9
Hindu	...
Hungarian	16
Icelandic	...
Indian	117
Italian	51
Japanese	...
Jewish	23
Negro	11
Norwegian	8
Polish	48
Roumanian	7
Russian	4
Serb and Croat	20
Swedish	14
Swiss	2
Syrian	1
Ukrainian*	41
Other	5
Not specified	36

*Including "Galician" and "Bukovinian."

Table 28—Deaths of Children under One Year of Age (exclusive of Stillbirths) Classified According to Birthplaces of Parents, in the Province of Ontario, 1938

Birthplace of Father	Total Fathers	BIRTHPLACE OF MOTHER																																				
		Canada										British Isles					British Possessions		Europe																Asia					
		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Province not specified	England	Ireland	Scotland	Wales	Other	Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland	Roumania	Russia*	Sweden	Other	China	Japan	Other	United States	Various	Not specified
Canada	2,394	...	13	4	180	1926	20	24	14	4	27	77	13	25	3	...	2	...	...	3	...	1	1	...	...	...	1	1	2	1	...	...	1	...	...	...	48	...	3
Prince Edward Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nova Scotia	14	...	4	...	...	8	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
New Brunswick	11	...	2	2	1	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Quebec	213	...	...	...	102	104	1	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...
Ontario	2,053	...	4	2	76	1773	12	10	11	3	1	69	11	23	3	...	2	...	...	2	...	1	1	...	...	...	1	...	1	1	...	...	...	...	...	...	44	...	2
Manitoba	31	...	...	...	...	16	6	6	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saskatchewan	21	...	1	...	...	7	1	8	...	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Alberta	4	...	1	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
British Columbia	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Province not specified	43	...	1	...	1	7	...	...	...	...	26	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...
British Isles	368	...	2	1	4	197	3	1	1	1	15	68	21	43	1	...	...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	7	...	...
England	222	...	2	1	4	119	3	1	1	...	10	58	6	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	4	...	...
Ireland	49	...	...	...	...	27	...	...	...	...	1	1	12	7	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scotland	83	...	...	...	...	41	...	...	...	1	3	8	3	22	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...
Wales	10	...	...	...	...	8	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other	4	...	...	...	...	2	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
British Possessions	14	...	...	...	...	9	...	...	...	...	...	1	...	...	...	...	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Newfoundland	9	...	...	...	...	5	...	...	...	...	...	1	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other	5	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Europe	216	...	1	...	4	49	8	2	...	...	6	6	1	...	...	...	...	...	4	2	...	5	...	1	2	14	17	2	34	6	13	2	33	...	...	...	4	...	...
Austria	16	...	1	...	...	5	2	...	...	...	1	1	...	...	...	...	...	...	4	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Belgium	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Denmark	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Finland	10	...	...	...	...	6	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
France	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Germany	8	...	...	...	...	7	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Holland	6	...	...	...	1	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hungary	15	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	...	...	...	...	...	...	...	...	...	...	1	...	...
Italy	30	...	...	...	2	6	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	...	...	...	...	...	...	...	...	...	1	...	...
Norway	3	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
Poland	36	...	...	...	...	5	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26	...	1	...	...	...	...	...	2	...	...
Roumania	8	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	4	...	...	...	...	...	...	...	...	...
Russia*	25	...	...	...	1	4	3	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	12	...	...	...	...	...	...	...	...

Sweden	5	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	..	..	..	..	..	..
Other	50	...	...	...	...	9	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	4	1	...	...	33	..	..	..	..	..	..
Asia	4	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	2	..	..	..
China	2	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..
Japan	.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..
Other	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	2	..	..	..
United States	66	...	...	...	5	40	4	2	...	...	3	2	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	1	...	...	...	1	...	..	..	..	5	..	..
Various	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..
Not specified	182	...	1	...	12	124	4	7	1	...	3	8	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	1	...	1	..	..	..	1	..	12
Total Mothers	3,245	...	17	5	205	2347	39	37	16	5	54	162	36	72	4	...	5	2	4	6	...	8	1	1	2	14	18	4	40	7	14	3	35	..	..	2	65	..	15

*Including the Ukraine.

Table 29—Deaths of Children (exclusive of Stillbirths) from Certain Specified Causes in First Year of Life by Sex and Calendar Month of Death, Ontario, 1938

CAUSES OF DEATH	Total under 1 year			MONTH OF DEATH																							
				Jan.		Feb.		March		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Total	M.	F.	M.	F.	M.	F.	M.	F	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
All Causes. **Total**	**3,245**	**1850**	**1395**	**159**	**123**	**170**	**90**	**170**	**143**	**166**	**120**	**161**	**110**	**135**	**115**	**137**	**97**	**138**	**124**	**163**	**145**	**160**	**119**	**137**	**90**	**154**	**119**
7. Measles	4	3	1	....	....	....	....	....	....	....	....	2	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....
8. Scarlet fever	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
9. Whooping-cough	60	27	33	1	3	....	....	2	2	8	5	....	3	2	4	4	2	....	4	4	4	1	2	1	....	4	4
11. Influenza	65	36	29	2	3	5	2	5	1	5	5	2	3	1	4	2	....	1	....	....	....	6	3	3	3	4	5
13. Dysentery	7	4	3	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	1	1	2	....	....	....	....	....	....
15 Erysipelas	5	3	2	2	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
18. Epidemic cerebrospinal meningitis	5	1	4	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	1	1	....	....	....	....
23. Tuberculosis of the respiratory system	4	3	1	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....	....	1	....	....	....
24. Tuberculosis of the meninges and central nervous system	7	4	3	1	1	....	....	1	....	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	1
25–32. Tuberculosis, other forms	6	3	3	....	....	....	2	....	....	....	1	1	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....
34. Syphilis	17	9	8	1	1	1	1	1	....	1	1	....	....	....	....	1	1	....	1	....	1	....	....	1	....	3	2
36. Purulent infection, septicaemia	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....
67. Diseases of the thymus gland	38	20	18	4	....	2	3	2	2	1	2	....	1	....	1	1	2	1	....	2	2	2	1	....	1	5	3
79. Simple meningitis	14	8	6	2	....	....	1	....	1	1	....	....	....	1	2	....	....	....	....	....	....	3	1	....	....	1	1
86. Convulsions	26	16	10	2	1	2	....	5	2	....	....	2	....	....	....	2	1	....	3	1	2	....	....	2	1	....	....
89. Diseases of the ear and mastoid process	24	12	12	1	2	1	2	1	....	....	2	1	....	....	....	1	....	....	2	1	1	3	2	....	....	3	1
105a. Croup	3	3	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
106. Bronchitis	13	8	5	....	1	1	....	3	1	2	....	....	....	....	....	1	....	....	....	....	....	1	....	....	2	....	1
107. Bronchopneumonia	272	150	122	20	15	16	7	16	15	15	11	15	16	7	9	9	3	6	7	11	6	9	10	10	9	16	14
108, 109. Pneumonia	107	71	36	13	5	8	3	6	3	2	2	10	5	5	1	5	1	4	1	2	2	4	4	4	3	8	6
115. Diseases of the buccal cavity and annexa and of the pharynx and tonsils (including adenoid vegetations)	8	6	2	....	....	2	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	3	1
116–118. Diseases of the stomach	9	6	3	....	....	1	1	1	....	2	....	....	....	....	....	....	....	1	....	....	1	....	1	....	....	1	....
119. Diarrhoea and enteritis	285	159	126	5	10	12	4	9	7	8	5	8	5	9	7	15	7	26	20	42	34	13	19	9	6	3	2
122. Hernia, intestinal obstruction	21	16	5	1	1	....	....	4	....	1	....	3	1	....	....	1	1	2	1	....	....	1	....	1	....	2	1
130. Nephritis	2	....	2	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
157. Malformations	446	222	224	18	18	23	13	24	25	14	21	21	12	13	20	19	20	22	21	14	21	18	11	21	22	15	20
(a) Congenital hydrocephalus	40	22	18	2	....	1	1	3	1	1	2	2	....	1	3	4	4	2	1	....	3	3	....	2	....	1	3
(c) Congenital malformations of the heart	168	80	88	8	8	14	5	7	8	3	12	8	6	1	5	5	9	10	10	3	11	8	5	7	4	6	5
(b, d, e) Others under this title	238	120	118	8	10	8	7	14	16	10	7	11	6	11	12	10	7	10	10	11	7	7	6	12	18	8	12
158. Congenital debility	111	65	46	3	2	8	2	6	4	4	5	7	4	3	4	8	3	4	3	4	3	6	10	8	3	4	3
159. Premature birth	1010	582	428	40	34	55	25	45	49	55	36	53	35	55	40	46	34	39	38	58	45	48	29	42	28	46	35
160. Injury at birth	289	187	102	20	7	11	7	16	11	10	9	19	9	18	7	9	6	20	11	11	12	23	9	14	2	16	12

161. Other diseases peculiar to early infancy (under 3 months)	215	121	94	14	9	9	8	10	12	21	11	11	6	7	7	6	10	6	4	7	6	12	9	10	9	8	3
(A-E) Specified diseases	210	118	92	12	9	9	8	10	12	21	11	11	5	6	7	6	10	6	4	7	6	12	9	10	9	8	2
(F) No cause given, no doctor in attendance	5	3	2	2	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1
173–175. Homicide	6	4	2	....	1	....	....	1	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	1	....	....	....
176–198. Other external causes	58	40	18	5	1	6	3	3	3	4	3	4	2	6	1	....	1	2	1	1	....	4	2	2	....	3	1
Other specified causes	97	55	42	4	5	6	6	7	4	8	....	1	5	5	8	3	2	1	5	4	1	2	3	6	1	8	2
199–200. Unspecified or ill-defined causes	8	3	5	....	....	....	....	....	....	2	....	....	1	....	....	....	....	....	....	....	2	....	2	....	....	1	....

Table 30—Deaths of Children (exclusive of Stillbirths) from Certain Specified

CAUSES OF DEATH	Total	Total under 1 year		Under 1 day		1 day & under 1 week		1 week & under 2 weeks		2 weeks & under 3 weeks	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
All Causes. **Total**	3,245	1,850	1,395	488	343	396	305	82	64	63	65
7. Measles	4	3	1	....	....	....	....	....	....	....	....
8. Scarlet fever	1	1	......	....	....	....	....	....	....	....	....
9. Whooping-cough	60	27	33	....	....	....	....	....	....	....	1
11. Influenza	65	36	29	....	....	....	1	1	....	1	2
13. Dysentery	7	4	3	....	....	....	....	....	....	....	1
15. Erysipelas	5	3	2	....	....	....	....	....	....	....	....
18. Epidemic cerebrospinal meningitis	5	1	4	....	....	....	....	....	....	....	....
23. Tuberculosis of the respiratory system	4	3	1	....	....	....	....	....	....	....	....
24. Tuberculosis of the meninges and central nervous system	7	4	3	....	....	....	....	....	....	....	....
25–32. Tuberculosis, other forms	6	3	3	....	....	1	....	....	....	....	....
34. Syphilis	17	9	8	....	....	2	4	1	1	....	1
36. Purulent infection, septicaemia	2	2	......	....	....	....	....	....	....	....	....
67. Diseases of the thymus gland	38	20	18	1	....	2	5	1	....	1	1
79. Simple meningitis	14	8	6	....	....	....	....	....	....	....	1
86. Convulsions	26	16	10	1	....	4	2	....	1	1	....
89. Diseases of the ear and mastoid process	24	12	12	....	....	....	....	....	....	....	....
105a. Croup	3	3	......	....	....	....	....	....	....	1	....
106. Bronchitis	13	8	5	....	....	....	....	....	....	....	....
107. Bronchopneumonia	272	150	122	....	....	6	5	1	4	1	4
108, 109. Pneumonia	107	71	36	....	....	2	2	2	....	2	1
115. Diseases of the buccal cavity and annexa and of the pharynx and tonsils (including adenoid vegetations)	8	6	2	....	....	....	....	....	....	....	....
116–118. Diseases of the stomach	9	6	3	....	....	....	1	1	....	....	....
119. Diarrhoea and enteritis	285	159	126	....	....	1	2	2	3	5	6
122. Hernia, intestinal obstruction	21	16	5	....	....	....	....	....	....	....	....
130. Nephritis	2	......	2	....	....	....	....	....	....	....	....
157. Malformations	446	222	224	28	41	67	51	19	23	13	13
(a) Congenital hydrocephalus	40	22	18	6	7	1	2	1	1	....	....
(c) Congenital malformations of the heart	168	80	88	7	14	28	21	5	10	4	2
(b, d, e) Others under this title	238	120	118	15	20	38	28	13	12	9	11
158. Congenital debility	111	65	46	20	14	15	5	2	1	1	1
159. Premature birth	1,010	582	428	311	209	157	133	33	16	25	26
160. Injury at birth	289	187	102	88	42	74	48	6	6	3	2
161. Other diseases peculiar to early infancy (under 3 months)	215	121	94	32	32	59	43	10	6	6	5
(a-e) Specified diseases	210	118	92	31	31	59	42	9	6	6	5
(f) No cause given, no doctor in attendance	5	3	2	1	1	....	1	1	....	....	....
173–175. Homicide	6	4	2	4	1	....	....	....	....	....	....
176–198. Other external causes	58	40	18	....	....	1	....	....	....	....	....
Other specified causes	97	55	42	1	3	5	3	3	3	2	....
199, 200. Unspecified or ill-defined causes	8	3	5	2	1	....	....	....	....	1	....

Causes in First Year of Life, by Sex and Age at Death, Ontario, 1938

AGE AT DEATH

3 weeks & under 1 month		1 month & under 2 months		2 months & under 3 months		3 months & under 4 months		4 months & under 5 months		5 months & under 6 months		6 months & under 7 months		7 months & under 8 months		8 months & under 9 months		9 months &under 10 months		10 months &under 11 months		11 months &under 12 months	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
43	**38**	**142**	**99**	**134**	**88**	**92**	**89**	**79**	**45**	**71**	**53**	**65**	**34**	**40**	**32**	**47**	**46**	**42**	**36**	**30**	**30**	**36**	**28**
....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	1	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
1	....	2	6	4	3	4	5	2	6	3	3	2	1	2	1	2	3	1	1	3	1	1	2
1	1	....	2	4	2	5	3	4	4	5	2	3	4	4	1	4	3	4	1	....	1	....	2
....	....	....	....	....	....	....	1	....	....	....	....	1	....	2	....	....	1	1	....	....	....	....	....
1	....	....	2	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
....	1	....	....	....	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	1	....
....	....	....	....	....	1	....	....	1	....	....	1	1	....	....	1	....	....	....	....	2	....	....	....
....	....	....	....	....	....	....	1	1	....	....	2	....	....	....	....	....	....	1	....	....	....	....	....
2	....	2	2	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
1	....	4	2	2	2	2	3	2	....	1	1	1	2	....	....	2	....	....	1	....	1	....	....
1	1	1	....	2	2	1	....	2	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....
....	....	4	2	1	....	1	3	....	1	....	....	....	....	....	....	2	1	2	....	....	....	....	....
1	....	1	1	....	1	2	2	1	....	3	1	2	2	1	1	1	1	....	1	....	1	....	1
....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	3	2	1	....	....	....	....	....	1	....	....	1	1	....	....	1	....	1	2	....
2	5	21	13	20	17	12	11	19	9	15	8	15	7	11	4	7	12	5	4	6	11	9	8
2	....	7	3	10	4	11	6	7	1	6	1	5	4	3	1	5	2	4	5	....	3	5	3
....	....	....	1	1	....	....	1	....	....	1	....	1	....	....	....	1	....	1	....	1	....	....	....
1	....	2	....	....	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
4	4	19	10	18	14	26	20	11	10	16	11	18	9	9	5	9	12	12	8	6	5	3	7
....	....	....	....	....	....	3	....	1	....	3	1	5	2	....	....	1	1	....	1	....	....	3	....
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
9	11	31	17	16	18	5	11	8	4	5	10	4	1	4	11	4	2	1	6	4	3	4	2
4	....	....	1	1	....	1	1	....	....	1	2	1	....	1	1	1	1	1	1	2	....	1	1
2	3	12	4	5	10	1	7	5	2	3	4	2	....	2	6	2	....	....	2	1	2	1	1
3	8	19	12	10	8	3	3	3	2	1	4	1	1	1	4	1	1	....	3	1	1	2	....
3	3	4	4	11	6	2	5	3	2	....	3	....	....	....	2	1	....	2	....	....	....	1	....
9	8	25	17	9	6	7	6	3	3	1	3	1	....	....	....	....	1	....	....	....	....	1	....
2	....	2	2	7	....	2	....	1	....	....	2	....	....	1	....	1	....	....	....	....	....	....	....
1	3	8	4	5	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
1	3	8	4	4	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
....	....	3	9	10	3	5	1	6	1	6	....	1	1	1	1	1	....	1	2	3	....	2	....
2	....	4	2	11	3	2	6	4	3	4	3	3	....	1	3	4	4	4	5	4	1	1	3
....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	2	....	....	....	....	....	....

Table 31—Total Deaths (exclusive of Stillbirths) and Deaths in Institutions, Showing the Number Non-Resident in the Province of Ontario, 1938

	All Deaths						In Institutions					
	Total			Non-resident in Province			Total			Non-resident in Province		
	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.
Total for the Province....	36,890	19,814	17,076	188	122	66	14,073	8,022	6,051	119	73	46

Table 32—Total Deaths (exclusive of Stillbirths) and Deaths in in Cities, Towns and Villages of

Cities and Towns	All Deaths												Deaths		
	Total			Residents			Non-resident in City, Town or Village where Death Occurred and						Total		
							Resident in Province			Non-resident in Province					
	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.
Cities:															
Belleville	248	135	113	141	72	69	105	61	44	2	2	....	147	83	64
Brantford	416	210	206	357	178	179	59	32	27	....	....	....	210	108	102
Chatham	333	196	137	183	102	81	150	94	56	....	....	....	229	136	93
Fort William	213	123	90	144	80	64	69	43	26	....	....	....	148	86	62
Galt	189	74	115	152	63	89	37	11	26	....	....	....	76	32	44
Guelph	220	130	90	159	92	67	60	38	22	1	....	1	119	70	49
Hamilton	1538	797	741	1366	696	670	170	100	70	2	1	1	870	487	383
Kingston	522	265	257	347	165	182	171	99	72	4	1	3	362	197	165
Kitchener	379	217	162	253	139	114	126	78	48	....	....	....	235	143	92
London	1106	567	539	805	397	408	299	168	131	2	2	....	714	377	337
Niagara Falls	233	121	112	205	103	102	28	18	10	....	....	....	120	74	46
North Bay	170	98	72	114	60	54	55	37	18	1	1	....	104	65	39
Oshawa	199	112	87	159	89	70	40	23	17	....	....	....	89	57	32
Ottawa	1727	873	854	1412	690	722	256	153	103	59	30	29	1088	583	505
Owen Sound	202	126	76	154	93	61	48	33	15	....	....	....	81	59	22
Peterborough	365	185	180	280	143	137	85	42	43	....	....	....	197	105	92
Port Arthur	253	150	103	176	103	73	74	45	29	3	2	1	196	115	81
St. Catharines	344	183	161	254	130	124	90	53	37	....	....	....	188	103	85
St. Thomas	221	105	116	165	68	97	56	37	19	....	....	....	127	74	53
Sarnia	240	125	115	198	101	97	42	24	18	....	....	....	102	58	44
Sault Ste. Marie	237	134	103	187	106	81	48	26	22	2	2	....	112	68	44
Stratford	228	114	114	190	95	95	37	18	19	1	1	....	104	50	54
Sudbury	274	170	104	184	110	74	88	58	30	2	2	....	166	112	54
Toronto	6947	3728	3219	5879	3068	2811	1056	650	406	12	10	2	3703	2174	1529
Welland	154	86	68	96	52	44	57	33	24	1	1	....	91	49	42
Windsor	878	454	424	807	383	424	71	71	....	....	....	....	473	264	209
Woodstock	213	112	101	130	62	68	83	50	33	....	....	....	130	73	57
Towns:															
Barrie	126	68	58	90	51	39	36	17	19	....	....	....	58	33	25
Brampton	79	43	36	54	27	27	25	16	9	....	....	....	34	21	13
Brockville	197	104	93	132	63	69	65	41	24	....	....	....	129	73	56
Cobourg	95	49	46	69	35	34	26	14	12	....	....	....	49	24	25
Collingwood	112	62	50	65	38	27	46	23	23	1	1	....	68	38	30
Cornwall	205	112	93	139	74	65	63	37	26	3	1	2	141	76	65
Eastview	31	16	15	31	16	15	....	....	....	....	....	....	....	....	....
Fort Erie	62	33	29	60	31	29	2	2	....	....	....	....	23	17	6
Fort Francis	50	30	20	41	23	18	9	7	2	....	....	....	17	12	5
Hawkesbury	68	33	35	52	24	28	4	1	3	12	8	4	22	9	13
Ingersoll	87	44	43	68	36	32	19	8	11	....	....	....	28	18	10
Kenora	89	58	31	58	36	22	26	17	9	5	5	....	62	39	23
Leamington	80	43	37	67	34	33	13	9	4	....	....	....	20	15	5
Lindsay	150	65	85	95	36	59	55	29	26	....	....	....	86	41	45
Midland	95	46	49	69	33	36	26	13	13	....	....	....	41	20	21
Mimico	25	12	13	20	10	10	5	2	3	....	....	....	1	1	....
New Toronto	115	56	59	23	11	12	92	45	47	....	....	....	93	46	47
Orillia	166	90	76	98	48	50	67	41	26	1	1	....	91	52	39
Pembroke	181	94	87	111	54	57	57	32	25	13	8	5	105	55	50
Port Colborne	27	20	7	25	18	7	2	2	....	....	....	....	....	....	....
Preston	36	15	21	35	15	20	1	....	1	....	....	....	3	2	1
Renfrew	72	34	38	53	24	29	18	9	9	1	1	....	28	13	15
Riverside	20	13	7	17	11	6	3	2	1	....	....	....	....	....	....
Simcoe	122	60	62	54	21	33	68	39	9	....	....	....	86	44	42
Smiths Falls	114	61	53	90	46	44	23	14	29	1	1	....	46	26	20
Thorold	49	23	26	43	21	22	6	2	4	....	....	....	10	4	6
Timmins	178	101	77	163	89	74	15	12	3	....	....	....	74	45	29
Trenton	47	18	29	46	18	28	1	....	1	....	....	....	....	....	....
Waterloo	61	30	31	59	29	30	2	1	1	....	....	....	....	....	....
Weston	32	17	15	26	16	10	6	1	5	....	....	....	....	....	....
Whitby	156	77	79	49	22	27	107	55	52	....	....	....	117	61	56
Villages:															
Forest Hill	34	15	19	32	14	18	2	1	1	....	....	....	....	....	....
Kirkland Lake	136	82	54	104	64	40	31	18	13	1	....	1	87	52	35
Swansea	30	12	18	28	10	18	2	2	....	....	....	....	....	....	....

Institutions, Classified according to Residence of Decedents Ontario of 5,000 Population and Over, 1938

in Institutions									Deaths Elsewhere than in Institutions														
Residents			Non-resident in City, Town or Village where Death Occurred and						Total			Residents			Non-resident in City, Town or Village where Death Occurred and					
			Resident in Province			Non-resident in Province									Resident in Province			Non-resident in Province		
Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.
49	26	23	96	55	41	2	2	....	101	52	49	92	46	46	9	6	3	....	....	....
155	79	76	55	29	26	....	....	....	206	102	104	202	99	103	4	3	1	....	....	....
81	44	37	148	92	56	....	....	....	104	60	44	102	58	44	2	2	....	....	....	....
88	51	37	60	35	25	....	....	....	65	37	28	56	29	27	9	8	1	....	....	....
48	24	24	28	8	20	....	....	....	113	42	71	104	39	65	9	3	6	....	....	....
60	34	26	58	36	22	1	....	1	101	60	41	99	58	41	2	2	....	....	....	....
712	393	319	156	93	63	2	1	1	668	310	358	654	303	351	14	7	7	....	....	....
196	103	93	162	93	69	4	1	3	160	68	92	151	62	89	9	6	3	....	....	....
111	65	46	124	78	46	....	....	....	144	74	70	142	74	68	2	....	2	....	....	....
420	209	211	292	166	126	2	2	....	392	190	202	385	188	197	7	2	5	....	....	....
93	56	37	27	18	9	....	....	....	113	47	66	112	47	65	1	....	1	....	....	....
53	29	24	50	35	15	1	1	....	66	33	33	61	31	30	5	2	3	....	....	....
57	37	20	32	20	12	....	....	....	110	55	55	102	52	50	8	3	5	....	....	....
795	415	380	242	143	99	51	25	26	639	290	349	617	275	342	14	10	4	8	5	3
38	28	10	43	31	12	....	....	....	121	67	54	116	65	51	5	2	3	....	....	....
114	64	50	83	41	42	....	....	....	168	80	88	166	79	87	2	1	1	....	....	....
123	71	52	71	43	28	2	1	1	57	35	22	53	32	21	3	2	1	1	1	....
103	54	49	85	49	36	....	....	....	156	80	76	151	76	75	5	4	1	....	....	....
73	39	34	54	35	19	....	....	....	94	31	63	92	29	63	2	2	....	....	....	....
65	36	29	37	22	15	....	....	....	138	67	71	133	65	68	5	2	3	....	....	....
66	42	24	44	24	20	2	2	....	125	66	59	121	64	57	4	2	2	....	....	....
68	33	35	35	16	19	1	1	....	124	64	60	122	62	60	2	2	....	....	....	....
81	55	26	83	55	28	2	2	....	108	58	50	103	55	48	5	3	2	....	....	....
2713	1561	1152	981	606	375	9	7	2	3244	1554	1690	3166	1507	1659	75	44	31	3	3	....
35	17	18	55	31	24	1	1	....	63	37	26	61	35	26	2	2	....	....	....	....
406	197	209	67	67	....	....	....	....	405	190	215	401	186	215	4	4	....	....	....	....
54	28	26	76	45	31	....	....	....	83	39	44	76	34	42	7	5	2	....	....	....
29	17	12	29	16	13	....	....	....	68	35	33	61	34	27	7	1	6	....	....	....
9	5	4	25	16	9	....	....	....	45	22	23	45	22	23	....	....	....	....	....	....
71	37	34	58	36	22	....	....	....	68	31	37	61	26	35	7	5	2	....	....	....
24	11	13	25	13	12	....	....	....	46	25	21	45	24	21	1	1	....	....	....	....
24	15	9	43	22	21	1	1	....	44	24	20	41	23	18	3	1	2	....	....	....
78	39	39	61	36	25	2	1	1	64	36	28	61	35	26	2	1	1	1	....	1
....	....	....	....	....	....	....	....	....	31	16	15	31	16	15	....	....	....	....	....	....
21	15	6	2	2	....	....	....	....	39	16	23	39	16	23	....	....	....	....	....	....
9	6	3	8	6	2	....	....	....	33	18	15	32	17	15	1	1	....	....	....	....
10	3	7	4	1	3	8	5	3	46	24	22	42	21	21	....	....	....	4	3	1
15	11	4	13	7	6	....	....	....	59	26	33	53	25	28	6	1	5	....	....	....
37	21	16	23	16	7	2	2	....	27	19	8	21	15	6	3	1	2	3	3	....
9	7	2	11	8	3	....	....	....	60	28	32	58	27	31	2	1	1	...	....	....
35	14	21	51	27	24	....	....	....	64	24	40	60	22	38	4	2	2	....	....	....
18	9	9	23	11	12	....	....	....	54	26	28	51	24	27	3	2	1	....	....	....
....	....	....	1	1	....	....	....	....	24	11	13	20	10	10	4	1	3	....	....	....
3	2	1	90	44	46	....	....	....	22	10	12	20	9	11	2	1	1	....	....	....
33	17	16	58	35	23	....	....	....	75	38	37	65	31	34	9	6	3	1	1	....
41	19	22	51	28	23	13	8	5	76	39	37	70	35	35	6	4	2	....	....	....
....	....	....	....	....	....	....	....	....	27	20	7	25	18	7	2	2	....	....	....	....
3	2	1	....	....	....	....	....	....	33	13	20	32	13	19	1	....	1	....	....	....
12	6	6	16	7	9	....	....	....	44	21	23	41	18	23	2	2	....	1	1	....
....	....	....	....	....	....	....	....	....	20	13	7	17	11	6	3	2	1	....	....	....
20	7	13	66	37	29	....	....	....	36	16	20	34	14	20	2	2	....	....	....	....
25	11	14	20	14	6	1	1	....	68	35	33	65	35	30	3	....	3	....	....	....
5	2	3	5	2	3	....	....	....	39	19	20	38	19	19	1	....	1	....	....	....
61	35	26	13	10	3	....	....	....	104	56	48	102	54	48	2	2	....	....	....	....
....	....	....	....	....	....	....	....	....	47	18	29	46	18	28	1	....	1	....	....	....
....	....	....	....	....	....	....	....	....	61	30	31	59	29	30	2	1	1	....	....	....
....	....	....	....	....	....	....	....	....	32	17	15	26	16	10	6	1	5	....	....	....
13	7	6	104	54	50	....	....	....	39	16	23	36	15	21	3	1	2	....	....	....
....	....	....	....	....	....	....	....	....	34	15	19	32	14	18	2	1	1	....	....	....
57	35	22	30	17	13	....	....	....	49	30	19	47	29	18	1	1	....	1	....	1
....	....	....	....	....	....	....	....	....	30	12	18	28	10	18	2	2	....	....	....	....

Table 33—Deaths (exclusive of Stillbirths) by Single Years of Age and by Age Groups in the Province of Ontario, 1938

AGES	TOTAL FOR PROVINCE		
	Total	Male	Female
All ages	36,890	19,814	17,076
Under 1 year	3,245	1,850	1,395
1 year	329	165	164
2 years	164	84	80
3 “	128	65	63
4 “	107	55	52
Total under 5 years	3,973	2,219	1,754
5 years	98	64	34
6 “	74	43	31
7 “	72	35	37
8 “	59	35	24
9 “	53	37	16
Total 5-9 years	356	214	142
10 years	80	47	33
11 “	51	24	27
12 “	67	39	28
13 “	67	40	27
14 “	93	60	33
Total 10-14 years	358	210	148
15 years	83	52	31
16 “	88	56	32
17 “	92	61	31
18 “	121	66	55
19 “	107	60	47
Total 15-19 years	491	295	196
20 years	94	57	37
21 “	111	59	52
22 “	124	64	60
23 “	128	72	56
24 “	125	64	61
Total 20-24 years	582	316	266
25 years	133	53	80
26 “	137	73	64
27 “	138	79	59
28 “	142	75	67
29 “	150	79	71
Total 25-29 years	700	359	341
30 years	138	75	63
31 “	136	84	52
32 “	155	79	76
33 “	164	92	72
34 “	144	75	69
Total 30-34 years	737	405	332
35 years	150	74	83
36 “	166	98	68
37 “	160	94	66
38 “	219	111	108
39 “	179	85	94
Total 35-39 years	881	462	419
40 years	207	112	95
41 “	190	107	83
42 “	233	128	105
43 “	234	139	95
44 “	249	128	121
Total 40-44 years	1,113	614	499
45 years	264	147	117
46 “	279	165	114
47 “	290	166	124
48 “	332	206	126
49 “	336	185	151
Total 45-49 years	1,501	869	632
50 years	374	229	145
51 “	295	161	134
52 “	373	229	144
53 “	402	234	168
54 “	440	266	174
Total 50-54 years	1,884	1,119	765
55 years	429	255	174
56 “	470	263	207
57 “	461	264	197
58 “	571	324	247
59 “	518	297	221
Total 55-59 years	2,449	1,403	1,046
60 years	508	308	200
61 “	512	288	224
62 “	607	344	263
63 “	581	335	246
64 “	595	314	281
Total 60-64 years	2,803	1,589	1,214
65 years	693	400	293
66 “	646	357	289
67 “	698	395	303
68 “	837	471	366
69 “	785	430	350
Total 65-69 years	3,659	2,058	1,601
70 years	855	464	391
71 “	767	408	359
72 “	918	474	444
73 “	931	517	414
74 “	924	485	439
Total 70-74 years	4,395	2,348	2,047
75 years	919	478	441
76 “	898	473	425
77 “	936	484	452
78 “	944	461	483
79 “	890	443	447
Total 75-79 years	4,587	2,339	2,248
80 years	820	397	423
81 “	703	331	372
82 “	732	371	361
83 “	606	313	293
84 “	608	298	310
Total 80-84 years	3,469	1,710	1,759
85 years	514	227	287
86 “	461	215	246
87 “	437	192	245
88 “	335	158	177
89 “	282	124	158
Total 85-89 years	2,029	916	1,113
90 years	236	100	136
91 “	147	59	88
92 “	123	50	73
93 “	106	37	69
94 “	81	26	55
Total 90-94 years	693	272	421
95 years	58	20	38
96 “	47	19	28
97 “	46	16	30
98 “	16	8	8
99 “	17	4	13
Total 95-99 years	184	67	117
100 years and over	24	13	11
Not stated	22	17	5

Table 34—Deaths (exclusive of Stillbirths) Classified according to Racial Origin of Decedents in the Province of Ontario, 1938

RACIAL ORIGIN	ONTARIO			RACIAL ORIGIN	ONTARIO		
	Total	Male	Female		Total	Male	Female
ALL ORIGINS	36,890	19,814	17,076	Hungarian	97	61	36
English	13,479	7,187	6,292	Icelandic	....	....	....
Irish	8,075	4,195	3,880	Indian	518	262	256
Scottish	6,137	3,190	2,947	Italian	319	189	130
Welsh	196	107	89	Japanese	....	....	....
French	3,109	1,725	1,384	Jewish	420	218	202
German	1,703	912	791	Negro	111	62	49
Armenian	14	9	5	Norwegian	50	33	17
Austrian	90	55	35	Polish	284	176	108
Belgian	50	32	18	Roumanian	64	43	21
Bulgarian	7	6	1	Russian	94	69	25
Chinese	70	67	3	Serb and Croat	73	50	23
Czech and Slovak	68	47	21	Swedish	95	64	31
Danish	29	16	13	Swiss	33	17	16
Dutch	601	343	258	Syrian	35	25	10
Finnish	236	143	93	Ukrainian*	177	119	58
Greek	48	37	11	Other	32	22	10
Hindu	....	....	....	Not specified	576	333	243

Table 35—Deaths (exclusive of Stillbirths) Classified according to Birthplace of Decedents for the Province of Ontario and for Cities, Towns and Villages of 10,000 Population and Over, 1938

Province, Cities, Towns and Villages	Total Deaths by Sex	BIRTHPLACE OF DECEDENTS																																					
		Canada										British Isles					British Possessions		Europe															Asia					
		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Province not specified	England	Ireland	Scotland	Wales	Other	Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland	Roumania	Russia*	Sweden	Other	China	Japan	Other	United States	Various	Not specified
Ontario.............Total	36,890	21	145	84	1506	25582	63	49	16	13	59	4069	806	1266	88	21	69	68	93	35	17	193	23	209	20	80	201	32	327	89	313	55	161	66	1	41	890	4	115
M.	19,814	12	82	48	792	13398	36	33	9	6	41	2280	434	664	50	16	35	34	63	23	9	121	13	105	17	51	127	22	204	50	209	42	124	65	1	27	472	4	95
F.	17,076	9	63	36	714	12184	27	16	7	7	18	1789	372	602	38	5	34	34	30	12	8	72	10	104	3	29	74	10	123	39	104	13	37	1	..	14	418	...	20
Cities, Towns and Villages of 10,000 and over......	18,783	14	98	53	859	11437	38	23	9	6	46	2747	535	845	58	16	52	53	65	15	12	109	11	106	11	57	164	12	235	74	253	28	96	57	1	35	500	3	50
M.	9,994	7	51	30	433	5889	21	14	3	2	32	1525	300	448	33	14	29	24	44	10	6	63	8	52	8	35	98	9	146	41	162	18	72	56	1	24	243	3	40
F.	8,789	7	47	23	426	5548	17	9	6	4	14	1222	235	397	25	2	23	29	21	5	6	46	3	54	3	22	66	3	89	33	91	10	24	1	..	11	257	...	10
Belleville............Total	248	..	1	1	4	204	1	1	..	..	...	19	4	6	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	..	..	3	...	...
M.	135	..	...	...	4	112	..	..	..	..	...	12	2	3	...	..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	..	..	...	...	...
F.	113	..	1	1	....	92	1	1	..	..	...	7	2	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	..	..	..	3	...	...
Brantford............Total	416	..	1	...	4	276	..	..	..	1	...	94	5	13	3	...	1	1	...	...	...	...	...	1	...	3	...	...	1	1	1	...	...	..	..	..	10	...	...
M.	210	..	...	...	2	136	..	..	..	1	...	52	4	4	2	...	...	1	...	...	...	...	...	1	...	3	...	...	1	1	...	...	...	..	..	..	2	...	...
F.	206	..	1	...	2	140	..	..	..	..	...	42	1	9	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	..	..	..	8	...	...
Chatham............Total	333	..	1	...	1	253	..	1	..	..	...	36	3	6	...	1	...	...	..	2	...	...	1	1	2	...	...	...	2	...	...	...	5	1	..	..	17	...	...
M.	196	..	...	...	1	155	..	..	..	..	...	19	....	3	...	1	...	...	...	...	...	...	1	1	1	...	...	...	2	...	...	...	4	1	..	..	7	...	...
F.	137	..	1	...	....	98	..	1	..	..	...	17	3	3	...	..	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...	1	..	..	..	10	...	...
Cornwall............Total	205	..	...	1	21	162	..	1	..	..	...	7	1	1	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	1	...	...	..	..	..	1	6	...	...
M.	112	..	...	...	10	86	..	..	..	..	...	6	1	1	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1	...	...	..	..	..	1	4	...	...
F.	93	..	...	1	11	76	..	1	..	..	...	1	....	....	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	..	..	..	2	...	...
Forest Hill..........Total	34	..	...	1	1	21	..	..	..	..	...	3	1	....	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	..	..	..	3	...	...
M.	15	..	...	1	....	8	..	..	..	..	...	2	....	....	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	..	..	..	2	...	...
F.	19	..	...	...	1	13	..	..	..	..	...	1	1	....	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	..	..	..	..	1	...	...

Fort William	Total	213	1	2	...	6	88	2	1	..	..	...	30	7	9	...	1	...	1	2	...	...	12	...	...	...	...	8	1	3	1	13	6	5	3	..	..	8	...	3
	M.	123	1	2	...	1	45	1	..	..	..	...	14	2	8	...	1	...	1	2	...	...	9	...	...	...	...	7	1	2	1	9	4	3	3	..	..	3	...	3
	F.	90	..	...	...	5	43	1	1	..	..	...	16	5	1	...	...	...	...	...	...	...	3	...	...	...	...	1	...	1	...	4	2	2	..	..	..	5	...	...
Galt	Total	189	..	...	...	1	133	1	..	..	..	...	27	1	21	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...	...	...	...	..	..	..	2	...	...
	M.	74	..	...	...	1	49	..	..	..	..	...	15	....	8	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	..	..	..	...	...	...
	F.	115	..	...	...	....	84	1	..	..	..	...	12	1	13	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	..	..	..	2	...	...
Guelph	Total	220	..	2	...	1	172	..	..	..	..	...	25	5	5	...	1	1	...	1	...	...	...	...	...	...	...	2	...	...	...	1	...	2	..	..	..	2	...	...
	M.	130	..	1	...	1	102	..	..	..	..	...	12	2	5	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	1	...	1	..	..	..	2	...	...
	F.	90	..	1	...	....	70	..	..	..	..	...	13	3	....	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	..	..	..	...	...	...
Hamilton	Total	1,538	..	6	...	17	870	2	1	1	..	1	318	40	115	6	4	1	2	8	...	...	...	1	14	...	11	20	1	22	4	11	1	9	5	..	7	39	...	1
	M.	797	..	3	...	7	451	1	1	..	..	...	167	21	49	3	3	...	...	2	...	...	...	1	8	...	7	9	...	14	4	8	1	7	5	..	4	21	...	...
	F.	741	..	3	...	10	419	1	..	1	..	1	151	19	66	3	1	1	2	6	...	...	...	...	6	...	4	11	1	8	...	3	...	2	..	..	3	18	...	1
Kingston	Total	522	1	3	3	11	402	..	..	1	..	1	45	11	12	2	...	...	1	...	...	...	...	...	...	...	...	1	...	1	...	4	...	1	2	..	..	18	...	2
	M.	265	1	2	...	3	202	..	..	..	..	1	25	7	6	2	...	...	1	...	...	...	...	...	...	...	...	1	...	1	...	1	...	1	2	..	..	8	...	1
	F.	257	..	1	3	8	200	..	..	1	..	...	20	4	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	..	..	..	10	...	1
Kirkland Lake	Total	136	..	4	1	13	72	..	2	..	..	...	10	1	5	1	..	...	...	...	...	1	2	...	...	...	...	1	...	2	...	8	2	5	2	..	1	3	...	...
	M.	82	..	2	1	8	38	..	2	..	..	...	8	....	3	...	..	...	...	...	...	...	2	...	...	...	...	1	...	2	...	7	1	3	2	..	..	2	...	...
	F.	54	..	2	...	5	34	..	..	..	..	...	2	1	2	1	..	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1	2	..	..	1	1	...	...
Kitchener	Total	379	..	...	...	2	292	1	..	..	1	...	17	2	5	...	...	...	2	2	...	...	...	...	27	...	1	1	...	4	1	8	...	4	..	..	..	9	...	...
	M.	217	..	...	...	2	163	1	..	..	1	...	10	....	3	...	..	...	...	1	...	...	...	...	20	...	...	1	...	3	...	5	...	3	..	..	..	4	...	...
	F.	162	..	...	...	....	129	..	..	..	..	...	7	2	2	...	..	...	2	1	...	...	...	...	7	...	1	...	...	1	1	3	...	1	..	..	..	5	...	...
London	Total	1106	..	7	1	9	789	2	..	..	1	...	173	25	39	3	1	1	3	...	1	1	...	...	1	...	2	5	...	7	2	7	...	2	1	..	1	22	...	...
	M.	567	..	4	...	5	402	..	..	..	..	...	80	12	20	1	1	1	2	...	1	1	...	...	...	...	2	5	...	6	2	4	...	2	1	..	1	14	...	...
	F.	539	..	3	1	4	387	2	..	..	1	...	93	13	19	2	..	...	1	...	...	...	...	...	1	...	...	...	...	1	...	3	...	...	..	..	..	8	...	...
Niagara Falls	Total	233	..	...	1	7	130	..	..	..	..	...	41	5	14	2	...	...	2	...	1	...	...	...	1	...	3	4	...	3	...	...	...	1	1	..	..	15	...	2
	M.	121	..	...	...	3	70	..	..	..	..	...	18	4	7	1	..	...	1	...	...	...	...	...	...	...	1	1	...	2	...	...	...	1	1	..	..	9	...	2
	F.	112	..	...	1	4	60	..	..	..	..	...	23	1	7	1	...	...	1	...	1	...	...	...	1	...	2	3	...	1	...	...	...	...	..	..	..	6	...	...
North Bay	Total	170	..	...	2	28	103	..	1	..	..	...	11	4	3	...	...	...	...	...	1	2	2	...	1	...	...	...	...	2	...	...	...	3	..	..	..	4	...	3
	M.	98	..	...	2	20	53	..	..	..	..	...	6	4	2	...	...	...	...	...	1	...	2	...	...	...	...	...	...	1	...	...	...	2	..	..	..	2	...	3
	F.	72	..	...	...	8	50	..	1	..	..	...	5	....	1	...	...	...	...	...	...	2	...	...	1	...	...	...	...	1	...	...	...	1	..	..	..	2	...	...
Oshawa	Total	199	..	1	...	2	133	..	..	..	..	...	40	4	3	...	...	2	...	1	...	...	...	...	1	...	1	...	1	5	1	1	...	1	..	..	..	1	...	1
	M.	112	..	...	...	....	71	..	..	..	..	...	25	2	2	...	...	2	...	1	...	...	...	...	...	...	...	...	1	4	1	1	...	1	..	..	..	...	...	1
	F.	87	..	1	...	2	62	..	..	..	..	...	15	2	1	...	...	...	...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	...	..	..	..	1	...	...
Ottawa	Total	1727	3	13	8	449	958	6	2	2	1	5	108	29	37	...	1	...	4	2	2	1	...	2	12	...	...	7	...	4	8	13	1	1	3	..	7	37	...	1
	M.	873	2	6	5	208	482	3	2	1	..	5	57	21	20	...	1	...	2	2	2	1	...	2	4	...	...	4	...	2	4	10	1	1	3	..	6	15	...	1
	F.	854	1	7	3	241	476	3	..	1	1	...	51	8	17	...	...	...	2	...	...	...	...	...	8	...	...	3	...	2	4	3	...	...	..	..	1	22	...	...

*Including the Ukraine.

Table 35—Deaths (exclusive of Stillbirths) Classified according to Birthplace of Decedents for the Province of Ontario and for Cities, Towns and Villages of 10,000 Population and Over, 1938—Continued

Province, Cities, Towns and Villages		Total Deaths by Sex	BIRTHPLACE OF DECEDENTS																																				
			Canada										British Isles					British Possessions		Europe															Asia					
			Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Province not specified	England	Ireland	Scotland	Wales	Other	Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland	Roumania	Russia*	Sweden	Other	China	Japan	Other	United States	Various	Not specified
Owen Sound	Total	202	...	...	...	...	174	...	...	...	...	1	13	2	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	2	1	...	...
	M.	126	...	...	...	...	104	...	...	...	...	1	9	1	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	2	1	...	...
	F.	76	...	...	...	...	70	...	...	...	...	...	4	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembroke	Total	181	...	1	1	26	131	...	...	...	...	...	3	5	2	...	...	...	...	1	...	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	M.	94	...	1	1	16	64	...	...	...	...	...	1	3	1	...	...	...	...	1	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	F.	87	...	...		10	67	...	...	...	...	...	2	2	1	...	...	...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Peterborough	Total	365	...	...	1	9	287	...	...	...	1	...	34	11	8	...	...	...	...	...	...	...	...	...	1	...	...	3	...	...	...	...	...	...	1	...	...	9	...	...
	M.	185	...	...	1	3	145	...	...	...	...	...	17	6	7	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	4	...	...
	F.	180	...	...	...	6	142	...	...	...	1	...	17	5	1	...	...	...	...	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	5	...	...
Port Arthur	Total	253	...	1	1	8	114	2	...	...	1	1	24	5	11	...	...	1	...	2	...	...	41	...	2	...	...	3	4	2	1	8	8	7	1	...	...	5	...	...
	M.	150	...	1	1	6	69	2	...	...	...	1	13	3	8	...	...	...	...	...	...	...	20	...	1	...	...	1	3	2	...	6	4	5	1	...	...	3	...	...
	F.	103	...	...	...	2	45	...	...	...	1	...	11	2	3	...	...	1	...	2	...	...	21	...	1	...	...	2	1	...	1	2	4	2	...	...	...	2	...	...
St. Catharines	Total	344	1	2	2	4	199	3	1	...	...	...	63	10	13	1	...	...	2	5	...	...	...	...	...	...	3	5	1	7	1	3	...	1	1	...	3	13	...	...
	M.	183	...	...	1	4	97	3	...	...	...	...	40	4	6	...	...	...	1	4	...	...	...	...	...	...	3	3	1	4	1	2	...	1	1	...	3	4	...	...
	F.	161	1	2	1	...	102	...	1	...	...	...	23	6	7	1	...	...	1	1	...	...	...	...	...	...	...	2	...	3	...	1	...	...	...	...	...	9	...	...
St. Thomas	Total	221	1	...	1	...	166	...	...	...	...	...	31	4	11	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	5	...	...
	M.	105	...	...	1	...	78	...	...	...	...	...	16	3	5	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
	F.	116	1	...	...	...	88	...	...	...	...	...	15	1	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...
Sarnia	Total	240	...	...	...	4	181	...	...	...	...	...	16	5	7	1	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1	...	2	...	...	...	21	...	...
	M.	125	...	...	...	3	88	...	...	...	...	...	10	2	5	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...	...	13	...	...
	F.	115	...	...	...	1	93	...	...	...	...	...	6	3	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	8	...	...

Sault Ste. Marie.....Total	237	..	1	...	12	155	1	..	1	..	1	19	1	8	...	...	...	...	...	...	...	9	1	...	...	...	8	...	1	3	7	...	1	..	..	..	7	...	1
M.	134	..	...	...	5	84	1	..	..	..	1	14	1	5	...	...	...	...	...	...	...	6	1	...	...	...	5	...	1	1	5	...	1	..	..	..	2	...	1
F.	103	..	1	...	7	71	..	..	1	..	...	5	....	3	...	...	...	...	...	...	...	3	...	...	...	...	3	...	...	2	2	...	...	..	..	..	5	...	...
Stratford............Total	228	..	...	...	1	177	..	..	..	..	...	26	4	10	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...	1	...	...	...	..	..	..	4	...	1
M.	114	..	...	...	1	86	..	..	..	..	...	14	2	6	...	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	..	..	..	2	...	...
F.	114	..	...	...	....	91	..	..	..	..	...	12	2	4	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	..	..	..	2	...	1
Sudbury............Total	274	..	2	...	36	175	2	1	..	..	...	6	2	5	3	..	...	1	3	...	...	10	...	...	...	...	4	...	5	...	4	3	1	1	..	1	4	...	5
M.	170	..	2	...	22	105	..	1	..	..	...	6	2	2	1	...	...	1	2	...	...	5	...	...	...	...	2	...	4	...	3	3	1	1	..	..	3	...	4
F.	104	..	...	...	14	70	2	..	..	..	...	....	....	3	2	...	...	..	1	...	...	5	...	...	...	...	2	...	1	...	1	...	...	..	..	1	1	...	1
Timmins............Total	178	..	3	1	30	102	..	..	..	..	...	9	2	7	...	...	...	...	...	...	...	6	...	1	1	...	5	...	1	1	2	...	...	1	..	..	6	...	...
M.	101	..	2	...	17	52	..	..	..	..	...	5	2	4	...	...	...	...	...	...	...	5	...	...	1	...	4	...	1	1	...	...	...	1	..	..	6	...	...
F.	77	..	1	1	13	50	..	..	..	..	...	4	....	3	...	...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	2	...	...	..	..	..	...	...	...
Toronto..............Total	6,947	6	39	22	115	3723	12	9	3	..	36	1351	310	424	32	6	42	32	27	3	7	25	6	24	6	16	68	3	138	40	150	6	37	30	..	4	164	3	28
M.	3,728	3	19	12	60	1897	6	7	1	..	23	772	174	231	19	5	24	13	19	3	4	13	3	9	4	8	42	2	78	19	91	4	26	29	..	2	80	3	23
F.	3,219	3	20	10	55	1826	6	2	2	..	13	579	136	193	13	1	18	19	8	...	3	12	3	15	2	8	26	1	60	21	59	2	11	1	..	2	84	...	5
Welland.............Total	154	..	2	1	3	94	1	..	..	..	...	15	3	3	1	...	...	...	1	...	...	...	...	1	...	7	5	...	5	1	1	...	2	..	..	..	8	...	...
M.	86	..	1	1	2	50	1	..	..	..	...	10	3	1	...	...	...	...	1	...	...	...	...	...	...	2	3	...	5	1	1	...	2	..	..	..	2	...	...
F.	68	..	1	...	1	44	..	..	..	..	...	5	....	2	1	...	...	...	...	...	...	...	...	1	...	5	2	...	...	...	...	...	...	..	..	..	6	...	...
Windsor.............Total	878	1	5	3	32	552	2	2	1	..	...	98	20	28	2	...	1	...	9	4	...	2	...	2	...	8	9	...	19	6	8	1	5	3	..	8	47	...	...
M.	454	..	4	2	17	269	2	1	1	..	...	51	11	13	2	...	1	...	7	3	...	1	...	...	...	7	4	...	11	4	6	...	4	3	..	5	25	...	...
F.	424	1	1	1	15	283	..	1	..	..	...	47	9	15	...	...	...	...	2	1	...	1	...	2	...	1	5	...	8	2	2	1	1	..	..	3	22	...	...
Woodstock..........Total	213	..	1	1	2	149	..	..	..	..	...	35	3	7	1	...	...	1	...	...	...	...	...	4	...	1	...	...	...	...	...	...	1	..	..	..	6	...	1
M.	112	..	1	1	1	76	..	..	..	..	...	19	1	4	1	...	...	1	...	...	...	...	...	3	...	1	...	...	...	...	...	...	1	..	..	..	2	...	...
F.	101	..	...	...	1	73	..	..	..	..	...	16	2	3	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	..	..	..	4	...	1

*Including the Ukraine.

Table 36—Deaths (exclusive of Stillbirths) Classified according to Birthplaces of Parents of Decedents in the Province of Ontario, 1938

Birthplace of Father	Total Fathers	BIRTHPLACE OF MOTHER																																					
		Canada										British Isles					British Possessions		Europe																Asia					
		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Province not specified	England	Ireland	Scotland	Wales	Other	Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland	Roumania	Russia*	Sweden	Other	China	Japan	Other	United States	Various	Not specified
Canada	15,068	18	107	65	1611	10563	39	33	16	6	756	480	444	262	8	2	5	6	1	3	...	1	12	44	6	1	2	2	5	1	1	6	2	...	...	...	312	1	247
Prince Edward Island	25	12	...	2	2	6	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nova Scotia	155	...	90	3	1	32	...	...	...	...	...	7	3	5	1	...	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...	1	...	...	...	...	1	...	8
New Brunswick	95	1	5	47	5	19	...	...	...	...	1	4	2	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	4
Quebec	1,896	...	...	2	1339	390	2	...	...	...	10	19	41	19	...	...	...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	...	...	...	...	...	27	1	43
Ontario	11,876	5	9	10	255	10016	23	17	13	3	48	401	349	212	7	2	4	5	1	2	...	1	10	38	4	...	2	...	4	1	1	5	1	...	...	...	254	...	173
Manitoba	49	...	...	...	3	24	13	6	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saskatchewan	24	...	1	...	...	8	1	10	...	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Alberta	5	...	1	...	...	2	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
British Columbia	7	...	...	...	...	6	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Province not specified	936	...	1	1	6	60	...	...	...	1	697	45	47	23	...	...	...	1	...	...	...	...	...	5	1	1	...	...	1	...	...	...	1	...	...	...	26	...	19
British Isles	16,421	10	40	15	143	2332	8	1	1	1	367	6191	3678	2949	113	19	17	20	...	1	3	1	17	22	10	...	...	2	1	3	2	2	1	...	...	...	205	...	246
England	7,796	4	18	6	47	902	8	1	1	...	154	5839	331	207	26	6	10	12	...	...	3	1	9	12	6	...	...	1	1	3	1	1	...	...	...	...	86	...	100
Ireland	4,758	5	4	6	58	846	...	...	...	...	132	159	3186	170	5	1	3	6	...	...	...	...	3	6	1	...	...	1	...	...	...	...	1	...	...	...	71	...	94
Scotland	3,697	1	16	2	36	554	...	...	...	1	79	171	157	2567	4	...	3	2	...	1	...	...	4	3	3	...	...	...	...	...	1	1	...	...	...	...	42	...	49
Wales	147	...	2	1	1	26	...	...	...	...	2	19	4	4	78	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	6	...	3
Other	23	...	...	...	1	4	...	...	...	...	...	3	...	1	...	12	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
British Possessions	143	1	2	2	4	24	...	...	...	...	1	11	5	5	...	...	58	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Newfoundland	76	1	1	...	...	8	...	...	...	...	1	3	2	1	...	...	58	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other	67	...	1	2	4	16	...	...	...	...	...	8	3	4	...	...	...	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Europe	3,159	...	3	...	25	222	9	3	...	...	20	41	30	11	1	...	1	...	115	39	20	215	56	688	33	103	263	35	426	97	351	69	212	...	...	...	40	...	31
Austria	129	...	1	...	...	5	2	...	...	...	1	1	...	...	...	...	...	...	106	...	...	...	...	2	...	1	...	...	6	...	1	...	1	...	...	...	1	...	1
Belgium	43	...	...	...	...	2	...	...	...	...	...	...	1	1	...	...	...	...	...	39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Denmark	28	...	...	...	...	2	...	...	...	...	...	2	...	1	...	...	...	...	...	...	20	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Finland	225	...	...	...	1	8	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	212	...	...	...	...	...	...	...	...	1	1	...	...	...	...	1	...	...
France	117	...	1	...	10	27	1	...	...	...	2	6	7	...	...	...	...	...	...	...	...	...	45	8	...	...	...	...	...	...	...	...	...	...	...	...	5	...	5
Germany	886	...	1	...	3	120	...	...	...	...	8	15	14	6	1	...	...	...	1	...	...	...	7	673	1	...	...	...	...	...	1	...	1	...	...	...	17	...	17
Holland	50	...	...	...	1	5	1	...	...	...	1	2	6	...	...	...	...	...	...	...	...	...	...	1	32	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Hungary	102	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100	...	...	...	...	...	...	...	...	...	...	1	...	...
Italy	300	...	...	...	8	18	...	...	...	...	2	5	1	1	...	...	...	...	...	...	...	...	1	...	...	...	263	...	...	...	...	...	...	...	...	...	1	...	...
Norway	45	...	...	...	...	3	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	1	1	...	...	...	...	33	...	...	...	3	...	...	...	...	2	...	...
Poland	420	...	...	...	...	7	...	1	...	...	2	1	...	...	...	...	...	...	3	...	...	...	...	1	...	...	...	...	397	...	2	...	...	...	...	...	4	...	2
Roumania	105	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	3	93	1	...	1	...	...	...	...	...	2
Russia*	386	...	...	...	1	7	3	...	...	...	2	2	...	...	...	...	1	...	4	...	...	...	...	...	...	...	...	...	16	3	344	...	1	...	...	...	...	...	2

Sweden	76	..	...	...	....	4	..	..	..	..	....	1	....	1	...	..	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	65	...	...	..	..	3	..	....
Other	247	..	...	...	....	13	1	..	..	..	2	4	....	1	...	..	...	...	...	...	...	1	3	2	...	1	...	...	4	1	1	...	208	...	..	..	4	..	1
Asia	121	..	...	...	1	3	..	1	..	..	....	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	67	..	48	1	..	....
China	70	..	...	...	....	2	..	1	..	..	....	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	67	..	..	....	..	....
Japan	......	..	...	...	....	......	..	..	..	..	....	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	....	..	....
Other	51	..	...	...	1	1	..	..	..	..	....	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	48	1	..	....
United States	975	..	2	3	29	334	5	5	..	..	20	45	45	28	...	1	2	1	1	...	...	2	2	5	...	...	...	3	...	...	...	2	1	...	..	..	406	..	33
Various	4	..	...	...	....	1	..	..	..	..	....	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	....	3	....
Not specified	999	..	1	1	16	239	6	7	1	..	9	16	15	11	...	..	1	1	1	...	..	1	1	2	...	...	...	...	3	...	1	...	1	...	...	.	7	..	658
Total Mothers	36,890	29	155	86	1829	13718	67	50	18	7	1173	6784	4217	3266	122	22	84	56	118	43	23	220	88	761	49	104	265	42	435	101	355	79	217	67	..	48	971	5	1216

---

*Including the Ukraine.

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938

CAUSES OF DEATH	Sex	Total	AGES—YEARS																									
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
DEATHS—ALL CAUSES. Total	...	36890	3245	329	164	128	107	356	358	491	582	700	737	881	1113	1501	1884	2449	2803	3659	4395	4587	3469	2029	693	184	24	22	
	M	19814	1850	165	84	65	55	214	210	295	316	359	405	462	614	869	1119	1403	1589	2058	2348	2339	1710	916	272	67	13	17	
	F	17076	1395	164	80	63	52	142	148	196	266	341	332	419	499	632	765	1046	1214	1601	2047	2248	1759	1113	421	117	11	5	
CLASS I.—INFECTIOUS AND PARASITIC DISEASES																													
Total	...	2441	189	65	43	34	28	67	57	108	154	155	151	129	144	154	129	132	122	145	166	119	84	42	19	3	....	2	
	M	1338	99	27	15	20	14	30	27	47	67	72	86	83	88	98	90	87	79	93	88	67	37	18	4	....	....	2	
	F	1103	90	38	28	14	14	37	30	61	87	83	65	46	56	56	39	45	43	52	78	52	47	24	15	3	....	....	
1. Typhoid fever	M	27	....	1	....	....	....	....	....	2	3	5	3	4	2	1	3	1	....	1	....	1	....	....	....	....	....	....	1
	F	8	....	....	....	....	....	....	1	3	....	....	1	....	....	2	....	....	....	1	....	....	....	....	....	....	....	....	
2. Paratyphoid fever	M	2	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	2
	F	2	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
5. Undulant fever	M	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	5
	F	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	
7. Measles	M	14	3	2	1	2	3	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7
	F	17	1	2	4	3	1	4	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
8. Scarlet fever	M	21	1	3	....	3	2	5	2	3	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	8
	F	28	....	2	3	1	2	7	2	5	2	....	1	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	
9. Whooping-cough	M	38	27	5	1	2	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	9
	F	50	33	8	7	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
10. Diphtheria	M	5	....	....	2	1	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	10
	F	6	....	1	1	1	....	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	
11. Influenza	M	322	36	4	2	3	2	4	2	3	8	6	11	2	14	8	16	15	14	32	47	43	29	17	4	....	....	....	11
	F	296	29	11	5	1	....	7	....	2	5	6	3	8	6	9	7	11	14	18	44	36	37	23	12	2	....	....	
11A. Sole cause	M	18	2	....	....	2	1	....	....	....	....	....	1	....	....	....	....	....	1	1	2	2	2	4	....	....	....	....	11A
	F	20	6	1	....	1	....	1	....	....	....	....	....	....	....	....	....	1	....	1	2	....	3	3	1	....	....	....	
11B. With bronchitis	M	13	1	....	....	....	1	....	....	....	....	....	....	....	1	1	....	3	....	....	1	2	2	1	....	....	....	....	11B
	F	16	1	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	1	2	1	5	4	....	....	....	....	
11C. With pneumonia	M	173	17	2	....	1	....	1	2	2	4	3	6	2	12	6	10	8	9	18	28	21	12	8	1	....	....	....	11C
	F	129	10	2	1	....	....	3	....	1	3	2	3	5	5	3	6	4	8	7	21	19	18	3	3	2	....	....	
11D. With other diseases of the respiratory system	M	19	1	....	....	....	....	....	....	....	1	....	1	....	....	....	1	1	1	4	2	3	2	2	....	....	....	....	11D
	F	17	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	2	3	4	2	1	2	....	....	....	
11E. With intestinal complications	M	22	7	....	....	....	....	....	....	....	2	....	1	....	....	....	1	....	....	1	3	4	2	1	....	....	....	....	11E
	F	31	4	2	2	....	....	1	....	....	1	....	....	....	....	1	1	1	....	1	6	2	3	4	2	....	....	....	
11F. With other causes	M	77	8	2	2	....	....	3	....	1	1	3	2	....	1	1	4	3	3	8	11	11	9	1	3	....	....	....	11F
	F	83	7	6	2	....	....	2	....	1	1	4	....	2	1	4	....	4	5	6	10	10	6	8	4	....	....	....	
13. Dysentery	M	20	4	1	1	....	1	2	1	2	....	....	....	....	....	....	....	....	....	2	4	1	1	....	....	....	....	....	13
	F	16	3	....	3	....	....	....	....	....	1	1	....	....	....	....	....	1	1	1	1	....	2	....	2	....	....	....	

15. Erysipelas	M	19	3	....	....	....	....	....	....	2	....	....	1	....	3	....	1	1	2	1	1	2	1	1	....	....	....	....	15
	F	15	2	....	....	1	....	1	....	....	....	....	....	....	....	....	....	2	....	1	3	3	2	....	....	....	....	....	
16. Poliomyelitis and polioencephalitis	M	15	....	....	....	2	....	4	1	3	3	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	16
	F	10	....	....	....	....	3	....	3	1	1	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	
17. Lethargic or epidemic encephalitis	M	6	1	....	....	....	....	....	1	....	....	....	....	....	....	2	....	1	1	....	....	....	....	....	....	....	....	....	17
	F	8	....	....	....	....	....	....	1	....	2	....	....	1	1	....	....	....	....	1	2	....	....	....	....	....	....	....	
18. Epidemic cerebrospinal meningitis	M	9	1	1	1	2	....	1	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	18
	F	7	4	....	1	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
22. Tetanus	M	10	....	....	1	1	....	1	....	1	....	1	1	....	2	....	1	....	....	....	1	....	....	....	....	....	....	....	22
	F	3	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	
23–32. Tuberculosis	M	678	10	7	4	3	4	9	11	28	50	54	67	69	54	69	59	49	40	42	25	17	5	....	....	....	....	2	23–32
	F	559	7	9	4	7	4	15	18	48	72	70	56	33	38	38	28	24	23	26	21	12	4	....	1	1	....	....	
23. Tuberculosis of the respiratory system	M	599	3	3	1	....	....	4	5	22	47	50	63	65	52	65	53	46	36	40	21	16	5	....	....	....	....	2	23
	F	471	1	2	1	3	2	7	14	42	65	68	51	30	34	32	27	19	18	22	18	10	3	....	1	1	....	....	
24. Tuberculosis of the meninges and central nervous system	M	31	4	3	3	3	4	5	3	2	2	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	24
	F	34	3	5	3	4	1	7	2	3	3	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....	
25. Tuberculosis of the intestines and peritoneum	M	11	1	1	....	....	....	....	....	1	1	1	....	1	....	1	2	1	....	....	1	....	....	....	....	....	....	....	25
	F	14	....	1	....	....	1	....	2	2	1	1	1	1	1	1	....	....	1	1	....	....	....	....	....	....	....	....	
26. Tuberculosis of the vertebral column	M	11	....	....	....	....	....	....	2	1	....	1	1	1	1	....	1	1	1	....	1	....	....	....	....	....	....	....	26
	F	14	....	....	....	....	....	....	....	1	....	....	2	....	1	2	....	2	3	2	....	1	....	....	....	....	....	....	
27. Tuberculosis of the bones and joints (vertebral column excepted)	M	4	....	....	....	....	....	....	....	1	....	....	....	....	....	1	1	....	....	....	1	....	....	....	....	....	....	....	27
	F	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	
27A. Of bones	M	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	27A
27B. Of joints	M	3	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	27B
	F	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	
28. Tuberculosis of the skin and sub-cutaneous cellular tissue	M	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	28
29. Tuberculosis of the lymphatic system (bronchial, mesenteric and retroperitoneal glands excepted	M	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	29
	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	
30. Tuberculosis of the genito-urinary system	M	7	....	....	....	....	....	....	....	....	....	1	1	1	....	....	1	1	2	....	....	....	....	....	....	....	....	....	30
	F	12	....	1	....	....	....	....	....	....	2	1	2	1	1	1	....	1	1	....	1	....	....	....	....	....	....	....	
31. Tuberculosis of other organs	M	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	31
	F	3	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	1	....	....	....	....	....	
32. Disseminated tuberculosis	M	12	2	....	....	....	....	....	1	1	....	....	1	....	1	2	1	....	....	2	....	1	....	....	....	....	....	....	32
	F	8	3	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....	
32A. Acute	M	4	....	....	....	....	....	....	1	....	....	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	32A
	F	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
32B. Chronic	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	32B
32C. Not specified	M	8	2	....	....	....	....	....	....	1	....	....	....	....	....	1	1	....	....	2	....	1	....	....	....	....	....	....	32C
	F	4	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	
34. Syphilis	M	110	9	....	1	....	....	....	1	....	....	3	1	5	11	12	8	16	20	14	7	1	1	....	....	....	....	....	34
	F	50	8	1	....	....	....	....	1	1	1	3	2	2	8	5	3	5	5	1	3	1	....	....	....	....	....	....	
35. Gonococcus infection and other other venereal diseases	M	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	35
	F	4	1	1	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																										
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
36. Purulent infection, septicaemia (non-puerperal)	M	22	2	....	1	1	1	1	3	2	....	1	....	1	....	3	2	....	2	1	....	1	....	....	....	....	....	....	36
	F	10	....	....	....	....	1	....	....	....	1	2	....	....	....	....	1	2	....	1	2	....	....	....	....	....	....	....	
38. Malaria	M	2	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	38
	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	
39. Other diseases due to protozoal parasites	M	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	39
	F	4	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	
41. Hydatid cysts	M	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	41
41A. Of the liver	M	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	41A
43. Mycoses	M	4	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....	....	43
	F	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
44. Other infectious or parasitic diseases	M	9	2	3	....	....	....	....	....	1	....	....	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	44
	F	7	2	3	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	
44A. Chicken-pox	M	2	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	44A
	F	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
44C Others under this title	M	7	2	2	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	44C
	F	6	1	3	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	
CLASS II.—CANCER AND OTHER TUMOURS																													
Total	..	4780	6	2	3	3	2	13	19	16	26	38	69	135	195	299	395	502	552	681	684	615	344	152	19	8	1	1	
	M	2188	1	1	3	1	1	6	9	10	12	14	24	37	61	105	158	197	270	344	345	327	175	77	6	3	1	....	
	F	2592	5	1	....	2	1	7	10	6	14	24	45	98	134	194	237	305	282	337	339	288	169	75	13	5	....	1	
45–53. Cancer and other malignant tumours	M	2083	1	1	1	1	1	4	6	7	9	14	20	32	56	99	154	186	262	333	329	315	168	74	6	3	1	....	45–53
	F	2389	2	1	....	2	1	5	7	4	12	14	43	77	117	174	215	290	266	320	322	269	160	72	11	5	....	....	
45. Cancer of the buccal cavity and pharynx	M	126	....	....	....	....	....	....	1	....	....	....	....	2	3	2	6	11	17	23	18	19	14	7	2	1	....	....	45
	F	31	....	....	....	....	....	....	....	....	....	....	....	2	2	1	1	....	2	6	5	6	3	3	....	....	....	....	
46. Cancer of the digestive tract and peritoneum	M	1200	....	....	....	....	....	....	1	1	4	7	10	15	30	62	81	118	157	199	211	174	91	37	1	....	1	....	46
	F	1027	....	....	....	....	....	....	....	2	4	4	6	21	24	43	70	102	112	168	176	153	94	44	4	....	....	....	
46A. Of the oesophagus	M	60	....	....	....	....	....	....	....	....	....	....	....	....	1	1	5	2	8	14	11	13	3	2	....	....	....	....	46A
	F	31	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	1	4	11	4	4	1	2	....	....	....	....	
46B. Of the stomach and duodenum	M	524	....	....	....	....	....	....	....	....	....	1	4	8	12	28	41	60	64	88	77	77	47	15	1	....	1	....	46B
	F	335	....	....	....	....	....	....	....	....	....	1	1	2	10	7	25	29	32	51	61	52	41	21	2	....	....	....	

46C. Of the rectum	M	162	....	....	....	....	....	....	....	....	....	2	3	2	5	9	12	14	17	31	31	21	12	3	....	....	....	....	46C
	F	91	....	....	....	....	....	....	....	....	1	....	1	4	3	6	6	10	14	15	12	12	5	2	....	....	....	....	
46D. Of the liver and biliary ducts	M	101	....	....	....	....	....	....	....	....	2	1	....	....	2	5	6	12	15	15	19	14	6	4	....	....	....	....	46D
	F	165	....	....	....	....	....	....	....	1	1	....	1	6	2	8	6	15	24	23	34	27	10	6	1	....	....	....	
46E. Of the pancreas	M	63	....	....	....	....	....	....	....	....	....	1	....	....	3	8	7	6	14	8	9	3	4	....	....	....	....	....	46E
	F	71	....	....	....	....	....	....	....	....	....	....	....	2	1	2	8	5	6	12	13	11	8	3	....	....	....	....	
46F. Of the peritoneum	M	4	....	....	....	....	....	....	....	....	1	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....	46F
	F	7	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	1	....	1	1	1	....	....	....	....	....	....	
46G. Of other organs	M	286	....	....	....	....	....	....	1	1	1	2	3	5	6	10	10	24	39	43	63	46	19	13	....	....	....	....	46G
	F	327	....	....	....	....	....	....	....	1	2	3	2	6	6	20	22	41	32	55	51	46	29	10	1	....	....	....	
47. Cancer of the respiratory organs	M	128	....	....	....	....	....	....	....	....	2	1	....	2	10	12	25	11	24	19	11	7	3	1	....	....	....	....	47
	F	62	....	....	....	....	....	....	1	....	2	2	2	3	3	5	7	9	11	5	6	4	1	....	....	1	....	....	
47A. Of the larynx	M	34	....	....	....	....	....	....	....	....	....	....	....	....	....	2	5	3	6	8	3	4	2	1	....	....	....	....	47A
	F	8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	....	....	1	1	2	....	....	....	....	....	....	
47B. Of the lung	M	72	....	....	....	....	....	....	....	....	2	....	....	2	8	8	16	7	12	9	6	1	1	....	....	....	....	....	47B
	F	38	....	....	....	....	....	....	....	....	1	....	1	1	3	5	3	7	8	3	3	2	1	....	....	....	....	....	
47C. Of the mediastinum	M	7	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	2	....	2	1	....	....	....	....	....	....	47C
	F	6	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	1	....	2	....	....	....	....	....	....	....	
47D. Of other organs of the respiratory system	M	15	....	....	....	....	....	....	....	....	....	....	....	....	2	2	3	1	4	2	....	1	....	....	....	....	....	....	47D
	F	10	....	....	....	....	....	....	1	....	1	1	....	1	....	....	....	2	2	1	....	....	....	....	....	1	....	....	
48. Cancer of the uterus	F	381	....	....	....	....	....	....	....	....	1	3	11	22	26	39	54	51	40	44	36	36	14	3	....	1	....	....	43
48A. Of the uterus	F	241	....	....	....	....	....	....	....	....	1	2	4	7	14	15	41	34	30	27	26	26	10	3	....	1	....	....	48A
48B. Of the cervix uteri	F	140	....	....	....	....	....	....	....	....	....	1	7	15	12	24	13	17	10	17	10	10	4	....	....	....	....	....	48B
49. Cancer of other female genital organs	F	135	....	....	....	....	....	....	1	....	1	1	6	6	10	15	12	17	17	19	12	7	8	2	1	....	....	....	49
50. Cancer of the breast	M	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	50
	F	494	....	....	....	....	....	....	....	....	1	....	9	17	41	51	53	77	67	51	52	37	23	10	3	2	....	....	
51. Cancer of the male genito-urinary organs	M	399	....	....	....	....	....	....	....	1	2	2	1	3	2	15	20	22	39	70	69	87	45	20	....	1	....	....	51
51A. Of the bladder	M	107	....	....	....	....	....	....	....	....	....	....	....	1	2	5	10	8	12	14	15	19	14	6	....	1	....	....	51A
51B. Of the kidney	M	25	....	....	....	....	....	....	....	....	1	....	....	....	....	5	3	2	6	3	2	3	....	....	....	....	....	....	51B
51C. Of the prostate gland	M	249	....	....	....	....	....	....	....	1	....	....	....	....	....	2	3	12	19	53	52	64	30	13	....	....	....	....	51C
51D. Of the testicles and annexa	M	13	....	....	....	....	....	....	....	....	1	2	1	2	....	2	3	....	....	....	....	1	1	....	....	....	....	....	51D
51E. Of other male genito-urinary organs	M	5	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	....	....	....	....	1	....	....	....	....	51E
52. Cancer of the skin	M	46	....	....	....	....	....	....	....	....	....	1	1	....	....	1	1	4	3	3	6	15	6	4	1	....	....	....	52
	F	37	....	....	....	....	....	....	....	....	....	....	....	1	1	1	1	4	1	2	4	7	5	7	2	1	....	....	
53. Cancer of other or unspecified organs	M	182	1	1	1	1	1	4	4	5	1	3	8	10	11	7	21	20	21	19	14	13	8	5	2	1	....	....	53
	F	222	2	1	....	2	1	5	5	2	3	4	9	5	10	19	17	30	16	25	31	19	12	3	1	....	....	....	
53A. Of the eye and orbit	M	5	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	....	1	....	....	....	....	52A
	F	6	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	1	1	2	....	....	....	....	....	....	
53C. Of the glandular system	M	44	....	....	....	....	....	1	....	1	....	....	2	4	3	3	3	5	3	5	7	3	2	1	1	....	....	....	53C
	F	31	....	....	....	....	....	....	....	....	....	1	....	....	1	3	2	6	....	4	7	2	3	1	1	....	....	....	
53D. Of the female urinary organs	F	62	....	....	....	....	....	2	....	....	....	....	2	....	1	2	3	6	7	13	12	8	5	1	....	....	....	....	53D
53E. Of the bones and joints	M	25	....	....	....	....	....	1	1	2	....	....	1	1	2	1	1	2	5	4	1	1	1	1	....	....	....	....	53E
	F	24	1	....	....	1	....	1	1	....	1	....	3	2	1	2	2	4	2	2	....	....	1	....	....	....	....	....	
53F. Of the brain	M	44	1	....	....	1	1	1	1	2	....	1	3	2	4	1	14	8	3	1	....	....	....	....	....	....	....	....	53F
	F	40	1	....	....	1	....	2	3	2	2	2	3	3	5	6	3	4	1	....	2	....	....	....	....	....	....	....	
53G. Of the spine and spinal cord	M	12	....	....	....	....	....	....	1	....	....	1	....	....	....	2	1	....	5	1	1	....	....	....	....	....	....	....	53G
	F	9	....	....	....	....	....	....	1	....	....	....	....	....	....	4	2	1	....	....	1	....	....	....	....	....	....	....	
53H. Of the neck	M	6	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	2	1	....	2	....	....	....	....	....	53H
53I. Of the abdomen	M	14	....	....	1	....	....	1	1	....	....	....	....	1	1	....	2	1	....	1	1	1	2	1	....	....	....	....	53I
	F	17	....	....	....	....	....	....	....	....	....	....	1	....	....	1	2	3	1	....	4	5	....	....	....	....	....	....	
53J. Of other specified organs	M	21	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	4	3	4	1	4	1	....	1	1	....	....	53J
	F	14	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	2	3	3	2	1	1	....	....	....	....	
53K. Multiple cancer	M	7	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....	....	1	1	....	2	....	....	....	....	....	....	53K
	F	10	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	3	2	2	....	....	....	....	....	....	....	....	

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																									
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
53M. Of unspecified or unknown location	M	4	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	1	....	1	....	....	....	....	53M
	F	9	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	2	1	....	1	....	2	....	....	....	....	....	
54. Non-malignant tumours	M	80	....	....	2	....	....	2	2	3	3	....	1	4	3	4	3	5	6	8	14	11	7	2	....	....	....	....	54
	F	181	3	....	....	....	....	2	2	2	2	10	2	20	16	18	19	13	15	15	14	16	7	3	1	....	....	1	
54A. Of the ovary	F	42	....	....	....	....	....	....	....	1	2	5	1	8	....	4	3	3	2	2	5	2	3	....	1	....	....	....	54A
54B. Of the uterus	F	44	....	....	....	....	....	....	....	....	....	2	1	8	9	10	5	1	2	....	2	1	2	1	....	....	....	....	54B
54D. Of the brain	M	25	....	....	2	....	....	1	1	1	3	....	1	3	2	4	2	2	....	2	....	1	....	....	....	....	....	....	54D
	F	15	....	....	....	....	....	2	1	....	....	1	....	2	3	1	3	1	....	....	1	....	....	....	....	....	....	....	
54E. Of the thyroid gland	M	7	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	2	1	1	....	1	....	....	....	....	54E
	F	55	....	....	....	....	....	....	....	1	....	1	....	1	1	1	8	7	9	10	5	10	1	....	....	....	....	....	
54F. Of the prostate gland	M	29	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	3	11	7	5	....	....	....	....	....	54F
54G. Of other or unspecified sites	M	19	....	....	....	....	....	1	1	2	....	....	....	....	1	....	....	3	3	1	2	2	2	1	....	....	....	....	54G
	F	25	3	....	....	....	....	....	1	....	....	1	....	1	3	2	....	1	2	3	1	3	1	2	....	....	....	1	
55. Tumours, nature not specified	M	25	....	....	....	....	....	....	1	....	....	....	3	1	2	2	1	6	2	3	2	1	....	1	....	....	....	....	55
	F	22	....	....	....	....	....	....	1	....	....	....	....	1	1	2	3	2	1	2	3	3	2	....	1	....	....	....	
55B. Of the uterus	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	55B
55D. Of the brain	M	17	....	....	....	....	....	....	1	....	....	....	2	1	1	2	....	6	....	2	2	....	....	....	....	....	....	....	55D
	F	9	....	....	....	....	....	....	1	....	....	....	....	1	1	1	2	1	....	1	1	....	....	....	....	....	....	....	
55G. Of other or unspecified sites	M	8	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	2	1	....	1	....	1	....	....	....	....	55G
	F	12	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	1	2	3	2	....	1	....	....	....	
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES																												
Total	...	1095	49	13	6	6	7	13	31	28	28	25	20	36	30	41	70	99	109	130	147	129	51	18	7	2	....	....	
	M	418	27	6	2	3	1	10	12	13	15	11	10	12	12	14	32	31	34	46	49	49	18	8	2	1	....	....	
	F	677	22	7	4	3	6	3	19	15	13	14	10	24	18	27	38	68	75	84	98	80	33	10	5	1	....	....	
56. Acute rheumatic fever	M	84	....	....	....	2	....	8	10	10	9	8	6	4	2	3	8	4	3	1	4	2	....	....	....	....	....	....	56
	F	81	....	....	....	2	4	2	10	10	7	9	4	11	5	5	3	5	1	2	....	....	1	....	....	....	....	....	
57. Chronic rheumatism, osteo-arthritis	M	19	....	....	....	....	....	....	....	....	1	....	2	....	....	1	1	1	1	1	2	4	2	1	1	1	....	....	57
	F	27	....	....	....	....	....	....	....	....	....	1	1	....	....	....	2	....	2	3	4	6	2	6	....	....	....	....	
59. Diabetes mellitus	M	230	....	....	....	....	....	....	2	1	4	2	....	5	5	4	15	24	24	41	38	41	16	7	1	....	....	....	59
	F	354	....	1	1	....	1	1	4	3	2	2	2	6	4	9	11	42	51	55	72	57	24	3	2	1	....	....	
61. Beriberi	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	61
62. Pellagra	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	62

63. Rickets	M	8	2	4	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	63
	F	7	....	4	1	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	
64. Osteomalacia	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	64
65. Diseases of the pituitary gland	M	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	65
	F	7	....	....	1	....	....	....	1	....	....	....	....	1	....	....	1	....	1	1	....	1	....	....	....	....	....	....	
66. Diseases of the thyroid and parathyroid glands	M	40	5	....	....	....	....	....	....	1	....	1	2	2	4	6	4	2	4	3	4	2	....	....	....	....	....	....	66
	F	149	4	1	....	....	1	....	1	1	4	2	3	4	7	10	15	18	18	21	17	14	5	1	2	....	....	....	
66A. Simple goitre	M	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....	66A
	F	21	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	5	2	4	3	1	2	1	1	....	....	....	
66B. Exophthalmic goitre	M	29	....	....	....	....	....	....	....	....	....	1	2	2	4	5	4	2	3	1	3	2	....	....	....	....	....	....	66B
	F	111	....	....	....	....	....	....	1	....	3	2	2	3	7	8	13	12	16	17	14	10	3	....	....	....	....	....	
66C. Myxoedema, cretinism	F	10	....	1	....	....	....	....	....	....	1	....	1	1	....	1	2	1	....	....	....	2	....	....	....	....	....	....	66C
66D. Tetany	M	6	5	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	66D
	F	4	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
66E. Others under this title	M	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	66E
	F	3	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	1	....	....	....	
67. Diseases of the thymus gland	M	24	20	2	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	67
	F	21	18	1	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
68. Diseases of the adrenals (Addison's disease)	M	2	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	68
	F	5	....	....	....	....	....	....	....	....	....	....	....	1	1	2	1	....	....	....	....	....	....	....	....	....	....	....	
69. Other general diseases	M	10	....	....	1	....	1	1	....	....	....	....	....	....	1	....	3	....	2	....	1	....	....	....	....	....	....	....	69
	F	23	....	....	1	....	....	....	1	1	....	....	....	1	1	1	1	3	2	2	5	2	1	....	1	....	....	....	
69A. Fatty or amyloid degeneration	M	5	....	....	....	....	1	....	....	....	....	....	....	....	....	....	2	....	2	....	....	....	....	....	....	....	....	....	69A
	F	10	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	5	2	....	....	....	....	....	....	
69C. Others under this title	M	5	....	....	1	....	....	1	....	....	....	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	69C
	F	13	....	....	1	....	....	....	1	1	....	....	....	1	....	1	....	2	2	2	....	....	1	....	1	....	....	....	
CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS																													
Total	...	500	8	5	2	2	3	9	6	15	8	14	12	17	15	21	20	33	39	67	72	75	38	16	2	1	....	....	
	M	231	6	3	1	1	1	7	2	8	3	5	5	9	4	14	6	19	21	38	30	28	14	5	1	....	....	....	
	F	269	2	2	1	1	2	2	4	7	5	9	7	8	11	7	14	14	18	29	42	47	24	11	1	1	....	....	
70. Haemorrhagic conditions	M	5	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	2	....	....	....	....	1	....	....	....	....	70
	F	11	2	....	....	1	....	....	....	....	....	....	1	....	1	1	2	....	1	1	1	....	....	....	....	....	....	....	
70A. Simple purpura	M	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	70A
	F	10	2	....	....	1	....	....	....	....	....	....	1	....	1	1	2	....	1	1	....	....	....	....	....	....	....	....	
70B. Haemophilia	M	3	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	70B
	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	
71. Anaemia	M	129	4	....	....	....	....	1	1	1	1	1	2	....	1	3	3	10	12	25	23	23	13	4	1	....	....	....	71
	F	180	....	1	....	....	....	....	1	3	2	4	1	2	3	4	7	7	13	21	34	41	24	10	1	1	....	....	
71A. Pernicious anaemia	M	116	1	....	....	....	....	1	1	1	1	1	1	....	1	2	3	9	11	24	23	23	10	3	....	....	....	....	71A
	F	155	....	....	....	....	....	....	1	3	1	4	1	2	3	3	5	6	10	19	29	36	23	8	1	....	....	....	
71B. Others under this title	M	13	3	....	....	....	....	....	....	....	....	....	1	....	....	1	....	1	1	1	....	....	3	1	1	....	....	....	71B
	F	25	....	1	....	....	....	....	....	....	1	....	....	....	....	1	2	1	3	2	5	5	1	2	....	1	....	....	
72. Leukaemia and aleukaemia	M	86	1	3	1	1	1	6	1	6	1	3	3	6	1	8	3	9	7	13	7	5	....	....	....	....	....	....	72
	F	64	....	1	1	....	2	2	2	3	3	5	2	5	5	2	4	6	4	5	6	5	....	1	....	....	....	....	
72A. Leukaemia	M	61	1	3	1	1	1	6	....	5	1	3	1	3	1	5	2	5	6	9	3	4	....	....	....	....	....	....	72A
	F	54	....	1	1	....	2	2	2	3	2	3	1	4	5	2	4	6	4	3	3	5	....	1	....	....	....	....	

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																										
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
72B. Aleukaemia (Hodgkin's disease)	M	25							1	1			2	3		3	1	4	1	4	4	1							72B
	F	10									1	2	1	1						2	3								
73. Diseases of the spleen	M	11	1							1		1		3	2	2							1						73
	F	10							1	1			2	1	2			1		2									
74. Other diseases of the blood and blood-forming organs	F	4											1				1				1	1							74
Class V—Chronic Poisonings and Intoxications																													
Total	..	65		1				1			1	2	2	6	10	4	12	8	4	6	5	2						1	
	M	58									1	1	2	5	9	4	11	8	4	6	4	2						1	
	F	7		1				1				1		1	1		1				1								
75. Alcoholism	M	54										1	2	4	9	4	11	7	3	6	4	2						1	75
	F	4										1		1	1		1												
75A. Delirium tremens	M	3													1				1	1									75A
	F	1													1														
75B. Other alcoholic intoxications	M	51										1	2	4	8	4	11	7	2	5	4	2						1	75B
	F	3										1		1			1												
76. Chronic poisoning, by other organic substances	M	3									1			1					1										76
	F	1																			1								
76A. Chronic morphinism	M	1									1																		76A
	F	1																			1								
76B. Chronic cocainism	M	1												1															76B
76D. Other organic poisoning	M	1																	1										76D
77. Chronic poisoning by mineral substances	M	1																1											77
	F	2		1				1																					
77A. Lead (including occupational)	F	2		1				1																					77A
77C. Others under this title	M	1																1											77C
Class VI.—Diseases of the Nervous System and of the Organs of Special Sense																													
Total	..	1724	67	17	14	4	5	25	24	15	30	37	36	34	65	82	79	130	140	163	257	228	140	95	28	9			
	M	881	39	8	7	2		17	14	10	15	21	23	18	40	47	41	67	78	79	135	98	69	40	10	3			
	F	843	28	9	7	2	5	8	10	5	15	16	13	16	25	35	38	63	62	84	122	130	71	55	18	6			

78. Encephalitis (non-epidemic)	M	17	1	....	1	....	....	1	1	2	1	1	....	1	4	1	....	1	....	1	....	....	1	....	....	....	....	....	78
	F	13	....	1	....	....	....	1	....	1	....	2	1	....	2	1	1	1	2	....	....	....	....	....	....	....	....	....	
79. Simple meningitis	M	21	8	2	....	2	....	2	....	1	....	....	1	1	1	2	....	1	....	....	....	....	....	....	....	....	....	....	79
	F	27	6	3	1	2	....	2	3	....	1	....	3	1	1	1	1	1	1	....	....	....	....	....	....	....	....	....	
80. Progressive locomotor ataxia (tabes dorsalis)	M	12	....	....	....	....	....	....	....	....	....	....	....	....	....	2	2	5	1	....	1	1	....	....	....	....	....	....	80
	F	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....	....	....	....	
81. Other diseases of the spinal cord	M	57	....	....	....	....	....	....	1	2	....	....	1	....	1	2	3	7	9	7	11	6	6	1	....	....	....	....	81
	F	55	....	....	....	....	....	1	2	1	....	1	....	1	2	1	4	4	7	3	10	11	3	4	....	....	....	....	
82. Cerebral haemorrhage, cerebral embolism and thrombosis	M	375	....	....	....	....	....	1	....	....	2	2	2	2	12	12	12	15	44	45	80	63	44	29	8	2	....	....	82
	F	415	....	....	....	....	....	1	....	....	1	1	1	4	4	9	17	29	33	45	72	82	53	43	15	5	....	....	
82A. Cerebral haemorrhage	M	312	....	....	....	....	....	1	....	....	2	2	2	2	10	10	10	13	35	42	63	53	35	24	6	2	....	....	82A
	F	324	....	....	....	....	....	1	....	....	1	1	1	2	2	6	13	24	29	40	53	61	41	33	11	5	....	....	
82B. Cerebral embolism and thrombosis	M	39	....	....	....	....	....	....	....	....	....	....	....	....	1	2	1	2	5	2	13	7	4	2	....	....	....	....	82B
	F	42	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	5	2	2	9	10	8	2	2	....	....	....	
82C. Softening of the brain	M	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	2	....	....	....	....	....	82C
	F	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	
82D. Hemiplegia and other paralysis, cause not specified	M	20	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	2	1	4	3	3	3	2	....	....	....	82D
	F	47	....	....	....	....	....	....	....	....	....	....	....	1	2	3	3	....	2	3	10	10	3	8	2	....	....	....	
83. General paralysis of the insane	M	50	....	....	....	....	....	....	....	....	....	....	3	6	7	10	4	10	4	2	3	1	....	....	....	....	....	....	83
	F	13	....	....	....	....	....	....	....	....	1	....	....	....	1	1	1	2	....	1	3	1	2	....	....	....	....	....	
84. Dementia praecox and other psychoses	M	70	....	....	....	....	....	....	....	....	4	6	8	4	7	6	8	6	7	5	3	4	....	2	....	....	....	....	84
	F	86	....	....	....	....	....	....	....	....	1	2	3	3	10	10	9	12	2	15	9	8	2	....	....	....	....	....	
84A. Dementia praecox	M	58	....	....	....	....	....	....	....	....	2	6	8	4	4	6	6	5	7	4	3	2	....	1	....	....	....	....	84A
	F	67	....	....	....	....	....	....	....	....	1	2	2	2	9	9	5	8	1	11	8	8	1	....	....	....	....	....	
84B. Other psychoses	M	12	....	....	....	....	....	....	....	....	2	....	....	....	3	....	2	1	....	1	....	2	....	1	....	....	....	....	84B
	F	19	....	....	....	....	....	....	....	....	....	....	1	1	1	1	4	4	1	4	1	....	1	....	....	....	....	....	
85. Epilepsy	M	37	1	....	....	....	....	3	2	2	5	8	4	1	2	3	1	1	....	....	2	1	....	1	....	....	....	....	85
	F	36	....	....	....	....	1	1	2	....	7	4	2	2	....	6	1	1	1	2	2	2	1	1	....	....	....	....	
86. Convulsions (under 5 years of age)	M	17	16	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	86
	F	14	10	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
87. Other diseases of the nervous system	M	148	1	1	....	....	....	3	2	....	1	1	2	2	5	5	8	15	9	15	33	22	15	7	....	1	....	....	87
	F	136	...	1	4	....	3	1	1	1	3	2	2	2	4	4	3	11	14	16	22	23	8	7	3	1	....	....	
87A. Chorea	M	1	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	87A
	F	2	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
87B. Neuralgia and neuritis	M	11	....	....	....	....	....	....	1	....	1	....	1	....	....	....	1	1	....	1	2	1	1	1	....	....	....	....	87B
	F	12	....	....	2	....	....	....	....	....	....	1	....	....	1	....	1	1	1	1	1	3	....	....	....	....	....	....	
87C. Paralysis agitans	M	72	...	....	....	....	....	....	....	....	....	....	1	....	2	1	1	5	6	9	25	13	8	1	....	....	....	....	87C
	F	50	...	....	....	....	....	....	....	....	....	....	....	....	....	1	1	6	5	11	12	9	1	4	....	....	....	....	
87D. Sclerosis (other than of the spinal cord)	M	42	...	....	....	....	....	....	....	....	....	....	....	2	2	2	3	5	3	4	5	7	4	4	....	1	....	....	87D
	F	44	...	....	....	....	....	....	....	....	1	1	1	1	3	3	1	4	5	2	3	10	5	2	1	1	....	....	
87E. Others under this title	M	22	1	1	....	....	....	3	1	....	....	1	....	....	1	2	3	4	....	1	....	1	2	1	....	....	....	....	87E
	F	28	...	1	2	....	3	1	1	....	1	....	1	1	....	....	....	....	3	2	6	1	2	1	2	....	....	....	
88. Diseases of the organs of vision	M	11	...	....	....	....	....	....	....	....	....	....	1	1	....	....	....	2	1	3	1	....	2	....	....	....	....	....	88
	F	7	...	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	1	....	1	2	1	....	....	....	....	....	
89. Diseases of the ear and mastoid process	M	66	12	5	5	....	....	7	8	3	2	3	1	....	1	4	3	4	3	1	1	....	1	....	2	....	....	....	89
	F	38	12	2	....	....	1	1	2	1	2	4	....	2	1	2	1	2	1	1	2	1	....	....	....	....	....	....	
89A. Otitis	M	39	10	3	4	....	....	4	3	....	2	3	....	....	....	1	2	1	1	1	1	....	1	....	2	....	....	....	89A
	F	25	10	1	....	....	1	....	1	....	2	2	....	2	1	2	....	1	....	....	2	....	....	....	....	....	....	....	
89B. Diseases of the mastoid process	M	27	2	2	1	....	....	3	5	3	....	....	1	....	1	3	1	3	2	....	....	....	....	....	....	....	....	....	89B
	F	13	2	1	....	....	....	1	1	1	....	2	....	....	....	....	1	1	1	1	....	1	....	....	....	....	....	....	

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																								
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM																												
Total	..	12296	1	7	2	1	1	9	12	18	28	55	81	117	224	352	610	861	1122	1527	1921	2157	1733	1011	344	89	10	3	
	M	6606	1	1	1	....	....	4	7	10	9	26	52	60	136	219	406	533	637	872	1060	1097	860	434	137	39	3	2	
	F	5690	....	6	1	1	1	5	5	8	19	29	29	57	88	133	204	328	485	655	861	1060	873	577	207	50	7	1	
90–95. Diseases of the heart	M	4237	....	1	1	....	....	4	6	9	8	22	47	54	121	185	330	413	451	592	662	567	453	224	69	15	1	2	90–95
	F	3117	....	6	1	1	1	5	5	8	16	27	25	46	61	85	135	197	288	371	468	538	409	287	103	29	4	1	
90. Pericarditis	M	8	....	....	....	....	....	....	....	....	....	....	1	....	....	2	1	1	....	....	....	1	....	....	2	....	....	....	90
	F	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	....	1	....	....	....	....	....	....	....	
91. Acute endocarditis	M	44	....	....	....	....	....	....	2	4	2	2	3	4	7	5	6	2	....	1	4	2	....	....	....	....	....	....	91
	F	37	....	....	....	....	1	1	2	2	5	3	5	7	3	3	....	1	....	1	1	1	....	1	....	....	....	....	
91A. Endocarditis, specified as acute	M	36	....	....	....	....	....	....	1	2	1	2	2	2	6	5	6	2	....	1	4	2	....	....	....	....	....	....	91A
	F	27	....	....	....	....	....	1	2	1	4	3	3	4	1	3	....	1	....	1	1	1	....	1	....	....	....	....	
91B. Endocarditis, unspecified (under 45 years of age)	M	8	....	....	....	....	....	....	1	2	1	....	1	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	91B
	F	10	....	....	....	....	1	....	....	1	1	....	2	3	2	....	....	....	....	....	....	....	....	....	....	....	....	....	
92. Chronic endocarditis, valvular diseases	M	507	....	....	....	....	....	1	2	....	1	6	14	7	22	27	28	37	46	56	76	71	73	31	7	2	....	....	92
	F	493	....	....	....	1	....	1	2	3	5	10	8	14	17	13	31	33	34	33	67	100	69	40	11	1	....	....	
92A. Endocarditis specified as chronic and other valvular diseases	M	411	....	....	....	....	....	1	2	....	1	6	14	7	22	23	21	30	40	44	56	61	50	24	7	2	....	....	92A
	F	406	....	....	....	1	....	1	2	3	5	10	8	14	17	9	25	28	29	27	57	78	53	28	10	1	....	..	
92B. Endocarditis, unspecified (45 years and over)	M	96	....	....	....	....	....	....	....	....	....	....	....	....	....	4	7	7	6	12	20	10	23	7	....	....	....	....	92B
	F	87	....	....	....	....	....	....	....	....	....	....	....	....	....	4	6	5	5	6	10	22	16	12	1	....	....	....	
93. Diseases of the myocardium	M	1058	....	1	....	....	....	3	2	3	1	7	10	12	14	20	43	72	68	116	154	179	192	118	35	7	1	....	93
	F	1147	....	5	....	....	....	1	1	3	2	4	6	7	14	26	40	57	76	104	162	210	187	151	66	23	2	..	
93A. Acute myocarditis	M	62	....	....	....	....	....	1	....	1	....	1	....	2	1	3	5	5	2	7	11	6	10	6	1	....	....	....	93A
	F	63	....	1	....	....	....	....	....	....	....	1	1	1	1	4	2	5	12	7	5	12	5	4	2	....	....	....	
93B. Myocarditis, unspecified (under 45 years of age)	M	26	....	1	....	....	....	2	2	1	1	2	5	6	6	....	....	....	....	....	....	....	....	....	....	....	....	....	93B
	F	23	....	4	....	....	....	....	1	3	1	....	3	3	8	....	....	....	....	....	....	....	....	....	....	....	....	....	
93C. Chronic myocarditis and myocardial degeneration	M	614	....	....	....	....	....	....	....	1	....	4	5	4	7	7	21	43	45	70	93	104	119	69	18	4	....	....	93C
	F	685	....	....	....	....	....	1	....	....	1	3	2	3	5	14	21	38	47	65	101	117	121	90	43	12	1	..	
93D. Myocarditis, unspecified (45 years and over)	M	356	....	....	....	....	....	....	....	....	....	....	....	....	....	10	17	24	21	39	50	69	63	43	16	3	1	....	93D
	F	376	....	....	....	....	....	....	....	....	....	....	....	....	....	8	17	14	17	32	56	81	61	57	21	11	1	....	
94. Diseases of the coronary arteries and angina pectoris	M	2413	....	....	....	....	....	....	....	1	2	5	16	27	70	118	237	284	314	406	394	290	166	59	18	4	....	2	94
	F	1280	....	....	....	....	....	1	....	....	2	7	3	17	23	36	57	99	170	217	214	203	128	79	19	2	2	1	

94A. Diseases of the coronary arteries	M	83												2	4	2	9	14	12	11	13	8	6	1	1				94A
	F	40														1	1	6	9	7	3	4	6	2			1		
94B. Embolism and thrombosis of the coronary arteries	M	2073									2	5	15	23	59	100	111	243	266	344	339	251	142	51	16	4		2	94B
	F	1093						1			2	7	3	16	20	32	52	85	142	182	182	175	107	66	18	1	1	1	
94C Angina pectoris	M	257								1			1	2	7	16	17	27	36	51	42	31	18	7	1				94C
	F	147												1	3	3	4	8	19	28	21	24	15	11	1	1			
95. Other diseases of the heart	M	207			1					1	2	2	3	4	8	13	15	17	23	13	34	24	22	16	7	2			95
	F	156		1	1			1			2	3	3	1	4	7	6	7	6	16	23	24	25	16	7	3			
95A. Functional diseases of the heart	M	34											1	1	1	1	3	3	5	2	9	5	2	1					95A
	F	32									1			1		2	1	5	1	5	2	6	6	2					
95B. Other and unspecified	M	173			1					1	2	2	2	3	7	12	12	14	18	11	25	19	20	15	7	2			95B
	F	124		1	1			1			1	3	3		4	5	5	2	5	11	21	18	19	14	7	3			
96. Aneurysm (except of the heart)	M	43							1	1	1	1	2		1	2	5	10	3	5	7	2	2						96
	F	22									1			4	2	1	3	2	1	4	2		2						
97. Arteriosclerosis (of coronary arteries excepted)	M	1908												2	2	16	37	78	143	216	322	466	353	187	64	22			97
	F	1963											1	1	7	11	36	73	119	205	312	420	399	261	95	20	3		
98. Gangrene	M	62												1			1		2	5	9	17	16	8		1	2		98
	F	50																2	4	5	8	11	12	7		1			
99. Other diseases of the arteries	M	20														5	1		1	2	4	5			2				99
	F	15													1	2				2	3	5		2					
100. Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	M	33	1									1		1	1	2	3	3	3	5	8	2	2	1					100
	F	41										2			2	1	2	4	8	6	6	5	5						
101. Diseases of the lymphatic system (lymphangitis, etc.)	M	5										1										1	2	1					101
	F	3									1				1						1								
102. Idiopathic abnormalities of blood pressure	M	297										1	3	2	11	9	29	29	34	47	47	37	32	13	2	1			102
	F	477									1		3	6	14	33	28	50	65	62	60	80	46	20	9				
103. Other diseases of the circulatory system	M	1																			1								103
	F	2																			1	1							
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM																													
Total	...	3004	421	105	29	19	10	46	28	33	48	44	53	77	78	131	129	171	187	256	303	320	255	183	56	17	4	1	
	M	1662	248	52	16	7	9	28	17	19	34	18	25	39	51	92	91	113	115	152	157	158	108	85	22	3	3	..	
	F	1342	173	53	13	12	1	18	11	14	14	26	28	38	27	39	38	58	72	104	146	162	147	98	34	14	1	1	
104. Diseases of the nasal fossae and annexa	M	25	5					1	3	2	2		2		1	3	1	1	1	2			1						104
	F	16	5	3				1	1	1	1		1			1		1	1										
105. Diseases of the larynx	M	18	6	3	1	1	1	1	1									2		1	1								105
	F	6		1	1	1		1									1							1					
105A. Croup	M	3	3																										105A

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																									
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
105B. Other diseases of the larynx	M	15	3	3	1	1	1	1	1									2		1	1								105B
	F	6		1	1	1		1									1							1					
106. Bronchitis	M	48	8	5	1			2		2	1		1	1			5		2	1	2	7	3	6		1			106
	F	40	5	2	1	1							1	1			1		1	4	3	3	9	4	4				
106A. Acute	M	23	8	5	1			2					1						1				1	3		1			106A
	F	19	4	1	1	1														1	1	1	5	1	3				
106B. Chronic	M	20								2	1			1			4		1	1	1	6	2	1					106B
	F	16											1	1			1		1	3	2	1	4	2					
106C Unspecified	M	5															1				1	1		2					106C
	F	5	1	1																		1		1	1				
107. Bronchopneumonia	M	658	150	26	11	5	4	10	6	3	10	4	7	8	11	18	20	31	33	52	58	75	50	51	12	1	2		107
	F	614	122	28	7	3	1	7	2	4	4	8	5	13	11	13	14	25	31	32	61	80	78	43	13	8	1		
107A. Bronchopneumonia	M	656	150	26	11	5	4	10	6	3	10	4	7	8	11	18	20	31	33	52	57	74	50	51	12	1	2		107A
	F	612	122	27	6	3	1	7	2	4	4	8	5	13	11	13	14	25	31	32	61	80	78	43	13	8	1		
107B. Capillary bronchitis	M	2																			1	1							107B
	F	2		1	1																								
108. Lobar pneumonia	M	554	31	7	1		2	10	7	9	15	9	12	25	26	47	42	53	46	59	60	43	26	18	5		1		108
	F	402	20	15	4	2		6	7	6	7	14	14	15	14	20	15	20	24	48	45	47	36	15	6	2			
109. Pneumonia, unspecified	M	149	40	6	1		2	3				3		2	4	6	4	4	10	13	13	15	14	6	2	1			109
	F	118	16	3		4		2	1	1	1		3	4			2	3	5	8	15	18	8	17	4	2		1	
110. Pleurisy	M	40		2	1	1				2	1	1	2		4	7	3	7	4	1	2	1			1				110
	F	19	2	1				1		2		2	1		1			1		2		1	2	3					
111. Congestion and haemorrhagic infarct of the lung, etc.	M	31	5					1				1					1	2	1	2	2	6	7	2	1				111
	F	45																	1	3	4	7	9	13	7	1			
111A. Pulmonary embolism and thrombosis	M	8	1					1				1						1		1	1	2							111A
	F	4																			1	1	1	1					
111B. Others under this title	M	23	4														1	1	1	1	1	4	7	2	1				111B
	F	41																	1	3	3	6	8	12	7	1			
112. Asthma	M	98		1						1	3		1	3	2	5	8	12	14	16	15	8	6	2	1				112
	F	70	1			1					1	2	1	5		2	5	7	9	6	17	5	5	2		1			
113. Pulmonary emphysema	M	4													1						2		1						113
	F	1	1																										
114. Other diseases of the respiratory system (tuberculosis excepted)	M	37	3	2							2				2	6	7	1	4	5	2	3							114
	F	11	1										2		1	3		1		1	1	1							
114A. Chronic interstitial pneumonia including occupational diseases of the respiratory system	M	9															2			5		2							114A
114B. Gangrene of the lung	M	1															1												114B
	F	1													1														
114C. Others under this title	M	27	3	2							2				2	6	4	1	4		2	1							114C
	F	10	1										2			3		1		1	1	1							

Class IX.—Diseases of the Digestive System																												
Total....................	...	2355	336	39	22	14	15	46	53	53	42	56	52	71	101	126	146	178	188	202	202	187	134	67	21	4	....	....	
	M	1318	191	21	14	6	7	25	29	37	23	35	26	45	60	78	91	108	110	112	106	92	62	30	9	1	....	....	
	F	1037	145	18	8	8	8	21	24	16	19	21	26	26	41	48	55	70	78	90	96	95	72	37	12	3	....	....	
115. Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations)....	M	87	6	4	2	1	....	2	4	3	4	3	3	2	7	3	6	8	9	7	5	3	3	1	1	....	....	....	115
	F	71	2	3	1	1	1	6	5	3	3	2	1	2	1	4	6	6	4	3	8	3	5	1	....	....	....	....	
115A. Diseases of the buccal cavity and annexa...............	M	32	....	....	....	....	....	....	....	....	1	....	....	....	1	2	3	3	6	5	3	3	3	1	1	....	....	....	115A
	F	26	....	....	....	....	....	2	....	1	....	1	....	....	....	2	6	2	1	1	4	1	4	1	....	....	....	....	
115B. Diseases of the tonsils......	M	25	2	3	1	....	....	2	2	2	2	1	1	1	3	....	1	2	1	1	....	....	....	....	....	....	....	....	115B
	F	18	1	....	1	....	1	1	1	1	2	1	1	1	1	....	....	2	2	1	1	....	....	....	....	....	....	....	
115C. Others under this title......	M	30	4	1	1	1	....	....	2	1	1	2	2	1	3	1	2	3	2	1	2	....	....	....	....	....	....	....	115C
	F	27	1	3	....	1	....	3	4	1	1	....	....	1	....	2	....	2	1	1	3	2	1	....	....	....	....	....	
116. Diseases of the oesophagus...	M	2	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	116
	F	5	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....	....	
117. Ulcer of the stomach or duodenum..................	M	253	....	....	....	....	....	....	....	1	2	5	7	17	13	27	31	31	38	26	20	25	7	3	....	....	....	....	117
	F	42	....	....	....	....	1	....	....	....	....	....	1	....	5	....	4	5	8	3	5	5	5	....	....	....	....	....	
117A. Ulcer of the stomach.......	M	120	....	....	....	....	....	....	....	1	1	2	4	8	6	9	14	22	17	12	7	13	2	2	....	....	....	....	117A
	F	31	....	....	....	....	1	....	....	....	....	....	1	....	4	....	3	3	5	3	4	3	4	....	....	....	....	....	
117B. Ulcer of the duodenum.....	M	133	....	....	....	....	....	....	....	....	1	3	3	9	7	18	17	9	21	14	13	12	5	1	....	....	....	....	117B
	F	11	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	2	3	....	1	2	1	....	....	....	....	....	
118. Other diseases of the stomach	M	27	6	....	....	....	....	....	....	....	....	1	....	....	1	3	2	1	2	4	2	1	4	....	....	....	....	....	118
	F	19	2	1	....	....	....	....	....	....	1	....	....	....	....	3	1	1	1	....	....	1	4	2	1	1	....	....	
119. Diarrhoea and enteritis (under 2 years of age)............	M	174	159	15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	119
	F	138	126	12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
120. Diarrhoea and enteritis (2 years and over)...........	M	99	....	....	5	3	2	5	6	2	1	5	....	....	6	6	....	1	10	8	7	9	12	9	2	....	....	....	120
	F	97	....	....	4	3	2	2	1	3	4	3	3	5	3	2	2	5	7	4	11	9	15	4	3	2	....	....	
120A. Diarrhoea and enteritis.....	M	66	....	....	5	3	2	4	6	1	....	....	....	....	1	1	....	1	7	4	5	7	10	8	1	....	....	....	120A
	F	70	....	....	4	3	2	2	1	3	....	1	2	2	1	1	....	2	5	2	8	7	15	4	3	2	....	....	
120B. Ulceration of the intestines..	M	33	....	....	....	....	....	1	....	1	1	5	....	....	5	5	....	....	3	4	2	2	2	1	1	....	....	....	120B
	F	27	....	....	....	....	....	....	....	....	4	2	1	3	2	1	2	3	2	2	3	2	....	....	....	....	....	....	
121. Appendicitis...............	M	202	....	....	4	2	5	16	14	24	13	16	8	9	12	9	14	19	12	10	5	5	4	1	....	....	....	....	121
	F	128	1	....	2	2	4	9	14	9	7	6	6	3	7	8	9	8	13	6	6	4	2	1	1	....	....	....	
122. Hernia, intestinal obstruction.	M	226	16	1	2	....	....	1	3	5	2	3	3	7	13	8	16	18	17	30	28	23	15	9	5	1	....	....	122
	F	160	5	1	1	1	....	....	3	....	....	6	4	4	6	5	12	21	12	16	20	26	6	7	4	....	....	....	
122A. Hernia..................	M	109	2	....	....	....	....	....	....	2	1	1	....	....	5	2	8	10	10	17	17	18	7	6	3	....	....	....	122A
	F	62	1	....	....	....	....	....	2	....	....	....	1	1	....	2	4	11	8	8	8	7	4	4	1	....	....	....	
122B. Intestinal obstruction......	M	117	14	1	2	....	....	1	3	3	1	2	3	7	8	6	8	8	7	13	11	5	8	3	2	1	....	....	122B
	F	98	4	1	1	1	....	....	1	....	....	6	3	3	6	3	8	10	4	8	12	19	2	3	3	....	....	....	
123. Other diseases of the intestines	M	22	2	....	....	....	....	....	....	1	....	....	1	....	....	1	1	....	2	1	6	3	2	2	....	....	....	....	123
	F	25	1	....	....	....	....	....	1	....	....	1	....	....	....	2	3	2	3	2	2	4	1	3	....	....	....	....	
124. Cirrhosis of the liver........	M	89	....	....	....	....	....	....	....	....	....	2	2	4	1	12	12	10	8	8	15	8	5	2	....	....	....	....	124
	F	65	....	....	....	....	....	....	....	1	....	1	2	5	2	7	7	3	6	8	8	9	4	2	....	....	....	....	
124A. Specified as alcoholic.......	M	8	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	1	2	1	....	1	....	....	....	....	....	124A
	F	4	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....	....	....	....	1	....	....	....	....	....	
124B. Not specified as alcoholic...	M	81	....	....	....	....	....	....	....	....	....	2	2	3	1	11	11	10	7	6	14	8	4	2	....	....	....	....	124B
	F	61	....	....	....	....	....	....	....	1	....	1	2	3	2	6	7	3	6	8	8	9	3	2	....	....	....	....	
125. Other diseases of the liver....	M	25	2	....	....	....	....	....	1	....	1	....	1	1	1	2	1	2	3	3	4	1	2	....	....	....	....	....	125
	F	27	2	1	....	....	....	1	....	....	1	1	2	....	2	2	2	2	1	5	1	2	....	2	....	....	....	....	

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																								
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
125A. Yellow atrophy of the liver	M	5	....	....	....	....	....	....	1	....	....	....	....	1	....	....	1	1	1	....	....	....	....	....	....	....	....	....	125A
	F	7	1	....	....	....	....	....	....	....	....	1	....	....	2	1	1	1	....	....	....	....	....	....	....	....	....	....	
125B. Others under this title	M	20	2	....	....	....	....	....	....	....	1	....	1	....	1	2	....	1	2	3	4	1	2	....	....	....	....	....	152B
	F	20	1	1	....	....	....	1	....	....	1	....	2	....	....	1	1	1	1	5	1	2	....	2	....	....	....	....	
126. Biliary calculi	M	47	....	....	....	....	....	....	....	....	....	....	....	....	4	3	3	6	5	7	6	4	6	2	1	....	....	....	126
	F	118	....	....	....	....	....	....	....	....	1	....	5	3	6	9	3	10	16	24	10	13	10	6	2	....	....		
127. Other diseases of the gall-bladder and biliary passages	M	49	....	....	....	....	....	....	....	....	....	....	....	3	1	4	5	9	3	8	7	6	2	1	....	....	....	....	127
	F	114	....	....	....	....	....	....	....	....	1	1	1	1	5	5	6	5	6	18	22	18	18	6	1	....	....	....	
128. Diseases of the pancreas	M	6	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	2	1	....	....	1	....	....	....	....	....	....	128
	F	8	....	....	....	....	....	....	....	....	1	....	....	1	2	....	....	1	....	....	1	....	2	....	....	....	....	....	
129. Peritonitis, cause not specified	M	10	....	1	1	....	....	1	1	....	....	....	1	1	....	....	....	1	....	....	....	3	....	....	....	....	....	....	129
	F	20	5	....	....	....	....	3	....	....	....	....	1	2	2	1	....	1	1	1	2	1	....	....	....	....	....	....	
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM																											
Total	..	2780	9	10	2	1	2	11	11	23	19	30	38	58	83	109	131	165	194	303	403	459	409	227	67	12	3	1	
	M	1676	6	4	....	....	1	10	4	12	6	13	17	21	39	59	69	107	124	190	251	297	258	140	34	10	3	1	
	F	1104	3	6	2	1	1	1	7	11	13	17	21	37	41	50	62	58	70	113	152	162	151	87	33	2	....	....	
130. Acute nephritis (including unspecified, under 10 years of age)	M	35	....	2	....	....	1	6	....	1	....	1	3	1	3	3	2	2	1	1	3	2	2	1	....	....	....	....	130
	F	28	2	3	1	1	1	....	1	1	2	1	3	2	1	1	1	3	2	....	2	....	....	....	....	....	....	....	
131. Chronic nephritis	M	728	....	....	....	....	....	2	2	5	3	7	11	9	17	33	42	65	67	83	109	110	100	48	10	3	1	1	131
	F	671	....	....	....	....	....	....	3	5	8	7	12	15	20	34	37	33	41	78	95	115	93	54	20	1	....	....	
132. Nephritis, unspecified (10 years and over)	M	235	....	....	....	....	....	....	2	3	....	3	2	3	8	12	14	13	12	25	34	40	35	17	7	5	....	....	132
	F	203	....	....	....	....	....	....	3	3	....	....	2	3	8	4	9	11	10	19	35	27	38	19	11	1	....	....	
133. Other diseases of the kidneys and ureters	M	70	5	1	....	....	....	1	....	1	2	1	1	3	5	2	4	6	4	11	7	5	5	5	1	....	....	....	133
	F	79	1	3	1	....	....	1	....	....	2	....	2	3	1	2	7	4	5	8	9	10	11	8	1	....	....	....	
134. Calculi of the urinary passages	M	40	....	....	....	....	....	....	....	1	....	....	....	....	2	4	2	7	6	5	6	4	3	....	....	....	....	....	134
	F	11	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	2	2	3	....	....	1	....	....	....	....	....	
135. Diseases of the bladder (tumours excepted)	M	50	1	....	....	....	....	1	....	1	1	....	....	3	1	1	2	2	4	1	9	4	10	7	1	1	....	....	135
	F	41	....	....	....	....	....	....	....	....	....	....	1	....	3	1	1	1	2	3	10	6	7	5	1	....	....	....	
136. Diseases of the urethra, urinary abscess, etc.	M	18	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	1	4	4	2	3	1	....	....	....	....	....	136
	F	2	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	

136A. Stricture of the urethra	M	15	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	3	3	2	3	1	....	....	....	....	....	136A
136B. Others under this title	M	3	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	1	....	....	....	....	....	....	....	....	136B
	F	2	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	
137. Diseases of the prostate	M	493	....	....	....	....	....	....	....	....	....	....	....	1	3	2	....	10	26	60	81	129	102	61	15	1	2	....	137
138. Diseases of the male genital organs (not specified as venereal)	M	7	....	1	....	....	....	....	....	....	....	1	....	1	....	....	2	1	....	....	....	....	....	1	....	....	....	....	138
139. Diseases of the female genital organs (not specified as venereal)	F	69	....	....	....	....	....	....	....	1	1	9	1	12	11	7	6	4	8	2	1	4	1	1	....	....	....	....	139
139A. Of the ovary, Fallopian tube and parametrium	F	25	....	....	....	....	....	....	....	....	1	6	....	4	6	1	1	2	2	1	....	....	1	....	....	....	....	....	139A
139B. Of the uterus	F	42	....	....	....	....	....	....	....	1	....	3	1	8	5	6	5	2	4	1	1	4	....	1	....	....	....	....	139B
139C. Of the breast	F	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	139C
Class XI.—Diseases of Pregnancy, Childbirth and the Puerperal State																													z
Total	...	251	....	....	....	....	....	....	....	18	42	66	54	46	23	1	....	1	....	....	....	....	....	....	....	....	....	....	
140. Abortion with septic conditions	F	26	....	....	....	....	....	....	....	....	7	8	8	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	140
140A. Abortion	F	12	....	....	....	....	....	....	....	....	2	3	6	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	140A
140B. Self-induced abortion	F	14	....	....	....	....	....	....	....	....	5	5	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	140B
141. Abortion without mention of septic conditions (haemorrhage included)	F	9	....	....	....	....	....	....	....	....	1	3	1	1	3	....	....	....	....	....	....	....	....	....	....	....	....	....	141
141A. Abortion	F	8	....	....	....	....	....	....	....	....	1	2	1	1	3	....	....	....	....	....	....	....	....	....	....	....	....	....	141A
141B. Self-induced abortion	F	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	141B
142. Ectopic gestation	F	11	....	....	....	....	....	....	....	....	3	3	1	1	3	....	....	....	....	....	....	....	....	....	....	....	....	....	142
142A. With septic conditions	F	3	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	142A
142B. Without mention of septic conditions	F	8	....	....	....	....	....	....	....	....	3	1	1	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	142B
143. Other accidents of pregnancy (haemorrhage excluded)	F	3	....	....	....	....	....	....	....	....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	143
144. Puerperal haemorrhage	F	22	....	....	....	....	....	....	....	....	3	7	4	4	4	....	....	....	....	....	....	....	....	....	....	....	....	....	144
144A. Placenta praevia	F	10	....	....	....	....	....	....	....	....	1	3	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	144A
144B. Other haemorrhages	F	12	....	....	....	....	....	....	....	....	2	4	1	2	3	....	....	....	....	....	....	....	....	....	....	....	....	....	144B
145. Puerperal septicaemia (not specified as due to abortion)	F	50	....	....	....	....	....	....	....	7	10	9	12	10	2	....	....	....	....	....	....	....	....	....	....	....	....	....	145
145A. Puerperal septicaemia and pyaemia	F	50	....	....	....	....	....	....	....	7	10	9	12	10	2	....	....	....	....	....	....	....	....	....	....	....	....	....	145A
146. Puerperal albuminuria and eclampsia	F	45	....	....	....	....	....	....	....	9	5	8	10	9	4	....	....	....	....	....	....	....	....	....	....	....	....	....	146
147. Other toxaemias of pregnancy	F	9	....	....	....	....	....	....	....	1	1	3	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	147
148. Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)	F	41	....	....	....	....	....	....	....	....	6	15	9	8	3	....	....	....	....	....	....	....	....	....	....	....	....	....	148
148A. Phlegmasia alba dolens and thrombosis	F	13	....	....	....	....	....	....	....	....	1	4	3	3	2	....	....	....	....	....	....	....	....	....	....	....	....	....	148A
148B. Embolism	F	18	....	....	....	....	....	....	....	....	4	5	5	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	18B
148C. Sudden death	F	10	....	....	....	....	....	....	....	....	1	6	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	148C
149. Other accidents of childbirth	F	35	....	....	....	....	....	....	....	1	5	10	7	8	3	....	....	1	....	....	....	....	....	....	....	....	....	....	149

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																								
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
149A. Caesarean operation	F	6	....	....	....	....	....	....	....	1	2	1	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	149A
149B. Other surgical operations and instrumental delivery	F	6	....	....	....	....	....	....	....	....	1	4	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	149B
149C. Dystocia	F	14	....	....	....	....	....	....	....	....	1	4	3	5	....	....	....	1	....	....	....	....	....	....	....	....	....	....	149C
149E. Others under this title	F	9	....	....	....	....	....	....	....	....	1	1	3	1	3	....	....	....	....	....	....	....	....	....	....	....	....	....	149E
150. Other or unspecified condi-																											
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE																											
Total	..	76	10	....	....	....	....	1	2	4	3	4	....	2	3	5	3	3	5	6	7	10	4	4	....	....	....	....	
	M	40	4	....	....	....	....	....	....	2	2	2	....	2	1	3	1	3	3	5	4	7	1	....	....	....	....	....	
	F	36	6	....	....	....	....	1	2	2	1	2	....	....	2	2	2	....	2	1	3	3	3	4	....	....	....	....	
151. Carbuncle	M	16	....	....	....	....	....	....	....	1	2	1	....	....	1	2	1	1	1	3	1	2	....	....	....	....	....	....	151
	F	11	1	....	....	....	....	....	1	1	....	1	....	....	1	....	....	....	....	1	1	2	2	....	....	....	....	....	
152. Cellulitis, acute abscess	M	9	....	....	....	....	....	....	....	1	....	1	....	2	....	....	....	1	1	1	1	1	....	....	....	....	....	....	152
	F	13	2	....	....	....	....	1	....	....	1	....	....	....	1	1	2	....	1	....	2	1	....	1	....	....	....	....	
153. Other diseases of the skin and annexa and of the cellular tissue	M	15	4	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	1	2	4	1	....	....	....	....	....	153
	F	12	3	....	....	....	....	....	1	1	....	1	....	....	....	1	....	....	1	....	....	....	1	3	....	....	....	....	
CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION																											
Total	...	108	6	1	....	1	1	7	18	12	....	6	4	4	3	5	5	2	5	7	6	1	5	5	3	1	....	....	
	M	67	4	1	....	....	....	5	15	11	....	2	1	3	2	1	2	2	5	5	4	....	1	....	2	1	....	....	
	F	41	2	....	....	1	1	2	3	1	....	4	3	1	1	4	3	....	....	2	2	1	4	5	1	....	....	....	
154. Osteomyelitis	M	37	1	....	....	....	....	2	11	8	....	2	1	2	1	....	1	....	3	3	....	....	....	....	2	....	....	....	154
	F	15	....	....	....	1	1	2	3	1	....	1	....	....	....	3	....	....	....	1	....	1	1	....	....	....	....	....	

155. Other diseases of the bones (tuberculosis excepted).....	M	9	....	....	....	....	....	....	3	....	....	....	....	....	....	....	....	1	1	....	2	....	1	....	....	1	....	....	155
	F	14	....	....	....	....	....	....	....	....	....	1	2	....	....	....	....	....	....	1	2	....	2	5	1	....	....	....	
156. Diseases of the joints and other organs of locomotion.......	M	21	3	1	....	....	....	3	1	3	....	....	....	1	1	1	1	1	1	2	2	....	....	....	....	....	....	....	156
	F	12	2	....	....	....	....	....	....	....	....	2	1	1	1	1	3	....	....	....	....	....	1	....	....	....	....	....	
156A. Of the joints (tuberculosis and rheumatism excepted)..	M	11	1	1	....	....	....	2	1	1	....	....	....	....	1	1	....	1	....	1	1	....	....	....	....	....	....	....	156A
	F	4	1	....	....	....	....	....	....	....	....	1	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	
156B. Of other organs of locomotion	M	10	2	....	....	....	....	1	....	2	....	....	....	1	....	....	1	....	1	1	1	....	....	....	....	....	....	....	156B
	F	8	1	....	....	....	....	....	....	....	....	1	....	1	1	1	2	....	....	....	....	....	1	....	....	....	....	....	
CLASS XIV.—CONGENITAL MALFORMATIONS																													
Total....................	..	499	446	20	4	2	3	6	5	3	5	....	1	2	....	....	1	....	1	....	....	....	....	....	....	....	....	....	
	M	249	222	9	....	1	2	4	5	1	3	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	
	F	250	224	11	4	1	1	2	....	2	2	....	1	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	
157. Congenital malformations (stillbirths excluded).......	M	249	222	9	....	1	2	4	5	1	3	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	
	F	250	224	11	4	1	1	2	....	2	2	....	1	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	157
157A. Congenital hydrocephalus...	M	30	22	3	....	1	1	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	157A
	F	24	18	3	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
157B. Spina bifida and meningocele	M	63	59	2	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	157B
	F	60	57	2	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
157C. Congenital malformations of the heart................	M	93	80	4	....	....	1	2	3	1	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	157C
	F	98	88	3	4	....	1	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
157D. Monstrosities..............	M	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	157D
	F	6	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
157E. Others under this title......	M	60	58	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	157E
	F	62	55	3	....	....	....	1	....	....	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	
CLASS XV.—DISEASES OF EARLY INFANCY																													
Total....................	...	1625	1625	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	M	955	955	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	F	670	670	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																									
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
158. Congenital debility	M	65	65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	158
	F	46	46	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
159. Premature birth	M	582	582	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	159
	F	428	428	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
160. Injury at birth	M	187	187	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	60
	F	102	102	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
160A. With mention of caesarean operation	M	4	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	160A
160B. Without mention of caesarean operation	M	183	183	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	160B
	F	102	102	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
161. Other diseases peculiar to early infancy (under 3 months)	M	121	121	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161
	F	94	94	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
161A. Atelectasis	M	42	42	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161A
	F	31	31	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
161B. Icterus of the new-born	M	14	14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161B
	F	18	18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
161C. Sclerema and oedema	M	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161C
	F	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
161D. Athrepsia	M	6	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161D
	F	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
161E. Others, including lack of care	M	55	55	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161E
	F	40	40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
161F. No cause given, no doctor in attendance	M	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161F
	F	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
CLASS XVI.—SENILITY																												
Total	...	475	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	64	90	114	99	77	27	4	....	
	M	190	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	29	39	45	43	30	3	1	....	
	F	285	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	35	51	69	56	47	24	3	....	
162. Senility	M	190	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	29	39	45	43	30	3	1	....	162
	F	285	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	35	51	69	56	47	24	3	....	
162A. With senile dementia (70 years and over)	M	90	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	24	23	22	12	8	1	....	....	162A
	F	116	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	27	36	25	20	6	2	....	....	

162B. Without senile dementia (70 years and over)	M	100	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5	16	23	31	22	2	1	....	162B
	F	169	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	8	15	44	36	41	22	3	....	
CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS																													
Total	...	2754	64	40	36	40	29	100	89	143	147	168	164	146	135	170	150	161	132	154	157	190	157	108	50	10	2	12	
	M	1904	44	29	24	24	18	68	68	114	125	139	134	126	109	134	118	127	106	107	86	78	61	35	15	3	2	10	
	F	850	20	11	12	16	11	32	21	29	22	29	30	20	26	36	32	34	26	47	71	112	96	73	35	7	....	2	
163–171. Suicides	M	274	....	....	....	....	....	....	....	8	17	22	22	23	29	40	31	27	20	14	9	10	1	....	1	....	....	....	163–171
	F	86	....	....	....	....	....	....	....	3	5	12	11	7	9	8	11	7	2	7	2	1	1	....	....	....	....	....	
163 Suicide by solid or liquid poisons or by absorption of corrosive substances	M	39	....	....	....	....	....	....	....	1	....	9	5	5	4	5	1	2	3	2	1	1	....	....	....	....	....	....	163
	F	32	....	....	....	....	....	....	....	1	1	7	6	3	5	3	2	1	1	1	....	....	1	....	....	....	....	....	
164. Suicide by poisonous gas	M	28	....	....	....	....	....	....	....	2	2	1	2	2	2	5	3	3	1	3	1	1	....	....	....	....	....	....	164
	F	13	....	....	....	....	....	....	....	2	....	1	1	1	2	....	2	3	....	....	1	....	....	....	....	....	....	....	
165. Suicide by hanging or strangulation	M	72	....	....	....	....	....	....	....	1	3	5	7	5	10	11	6	6	7	5	2	2	1	....	1	....	....	....	165
	F	9	....	....	....	....	....	....	....	....	....	1	3	....	....	1	3	....	....	1	....	....	....	....	....	....	....	....	
166. Suicide by drowning	M	31	....	....	....	....	....	....	....	....	1	2	1	1	7	3	4	7	3	....	2	....	....	....	....	....	....	....	166
	F	15	....	....	....	....	....	....	....	....	1	2	....	1	1	2	1	2	1	3	....	1	....	....	....	....	....	....	
167. Suicide by firearms	M	62	....	....	....	....	....	....	....	4	9	3	3	4	3	11	11	5	4	2	1	2	....	....	....	....	....	....	167
	F	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	
168. Suicide by cutting or piercing instruments	M	20	....	....	....	....	....	....	....	....	1	....	....	2	1	3	4	3	....	1	1	4	....	....	....	....	....	....	168
	F	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
169. Suicide by jumping from high places	M	17	....	....	....	....	....	....	....	....	1	2	3	2	2	1	2	....	2	1	1	....	....	....	....	....	....	....	169
	F	9	....	....	....	....	....	....	....	....	2	1	1	....	1	....	1	....	....	2	1	....	....	....	....	....	....	....	
170. Suicide by crushing	M	4	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	170
	F	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
171. Suicide by other means	M	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	171
	F	4	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	1	....	....	....	....	....	....	....	....	....	....	
173–175. Homicides	M	32	4	2	....	....	1	....	....	....	1	2	3	2	4	4	1	2	4	....	1	....	1	....	....	....	....	....	173–175
	F	12	2	....	....	....	....	....	....	....	1	1	4	....	1	2	....	....	....	....	....	....	....	....	....	....	....	1	
173. Homicide by firearms	M	10	....	....	....	....	....	....	....	....	....	2	1	1	2	1	....	1	1	....	....	....	1	....	....	....	....	....	173
	F	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	

TABLE 37—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1938—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																									
			Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 and over	Not stated	
174. Homicide by cutting or piercing instruments	M	2	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	174
175. Homicide by other means	M	20	4	2	...	...	1	...	...	...	1	...	1	1	2	2	1	1	3	...	1	...	...	...	...	...	...	...	175
	F	11	2	...	...	...	...	...	...	...	1	1	4	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	
176–198. Other violent deaths	M	1598	40	27	24	24	17	68	68	106	107	115	109	101	76	90	86	98	82	93	76	68	59	35	14	3	2	10	176–198
	F	752	18	11	12	16	11	32	21	26	16	16	15	13	16	26	21	27	24	40	69	111	95	73	35	7	...	1	
176. Attack by venomous animals	M	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	176
177. Food poisoning	M	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	177
	F	2	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
178. Accidental absorption of toxic gases	M	17	...	...	...	...	...	...	...	...	1	2	...	1	2	2	...	2	1	4	...	1	...	1	...	...	...	...	178
	F	6	1	...	...	...	1	...	...	1	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	
179. Other acute accidental poisonings (except by gas)	M	20	1	3	4	1	...	...	...	...	...	1	...	...	3	1	1	1	3	1	...	...	...	...	...	...	...	...	179
	F	9	...	3	1	...	...	...	...	...	...	...	1	...	1	2	...	...	...	...	1	...	...	...	...	...	...	...	
180. Conflagration	M	37	1	1	1	4	1	5	1	1	3	3	3	2	2	...	1	2	3	1	1	1	...	...	...	...	...	...	180
	F	24	2	1	2	2	...	2	3	1	1	3	2	...	...	1	...	...	...	1	1	...	...	2	...	...	...	...	
181. Accidental burns (conflagration excepted)	M	49	2	11	2	2	2	2	1	1	1	2	5	2	3	1	1	4	1	...	3	1	...	2	...	...	...	...	181
	F	58	...	...	4	6	2	2	1	2	2	1	3	3	2	...	5	4	1	4	7	6	3	...	...	...	...	...	
182. Accidental mechanical suffocation	M	48	29	...	1	1	...	2	1	2	1	1	2	1	...	1	...	2	...	3	1	...	...	...	...	...	...	...	182
	F	14	13	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
183. Accidental drowning	M	250	1	5	8	4	5	27	32	36	24	25	14	18	12	12	5	9	2	3	3	2	...	...	...	...	...	3	183
	F	37	1	3	2	3	...	6	4	5	3	1	...	4	2	1	...	1	...	...	...	...	1	...	...	...	...	...	
184. Accidental injury by firearms	M	33	...	...	...	...	...	...	2	4	5	6	5	3	...	3	1	1	1	...	1	1	...	...	...	...	...	...	184
	F	5	...	...	...	...	...	...	2	1	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	
185. Accidental injury by cutting piercing instruments	M	15	...	...	1	...	1	...	2	1	1	1	...	2	...	1	2	...	1	2	...	...	...	...	...	...	...	...	185
	F	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	
186. Accidental injury by fall, crushing or landslide	M	973	2	4	6	11	8	27	22	53	64	67	69	62	41	61	67	65	65	68	56	51	54	28	14	3	2	3	186
	F	550	1	3	3	4	8	22	9	15	9	8	7	5	9	21	12	22	23	31	56	91	85	68	33	5			
188. Injuries by animals	M	32	...	...	...	...	...	...	1	2	...	1	...	...	2	1	2	5	1	6	5	3	3	...	...	...	...	...	188
190. Excessive cold	M	9	1	...	...	...	...	1	...	...	...	1	...	...	2	1	1	...	...	...	1	1	...	...	...	...	...	...	190
	F	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	
191. Excessive heat	M	18	1	1	1	1	...	...	...	...	...	1	...	1	...	...	...	1	1	1	1	4	1	3	...	...	...	...	191
	F	16	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	...	...	1	...	6	2	1	1	2	...	...	
192. Lightning	M	4	...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	192
	F	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
193. Accidents due to electric currents	M	20	...	...	...	...	...	1	2	3	1	1	5	...	2	...	2	1	...	...	2	...	...	...	...	...	...	...	193
	F	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
194. Other accidents	M	51	1	2	...	...	...	3	4	2	5	3	4	6	4	3	...	4	2	2	1	2	1	1	...	...	...	1	194
	F	18	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2	4	6	3	1	1	...	...	...	
194A. Foreign body	M	6	...	2	...	...	...	2	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	194A

194B. Others under this title	M	45	1	....	....	....	....	1	4	2	5	3	4	5	4	3	....	4	1	2	1	2	1	1	....	....	....	1	194B
	F	18	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	4	6	3	1	1	....	....	....	
195. Violent deaths of which the nature (accident, suicide, homicide) is unknown	M	16	....	....	....	....	....	....	....	....	1	....	1	1	2	2	2	1	1	....	1	1	....	....	....	....	....	3	195
	F	7	....	....	....	....	....	....	....	1	....	1	1	....	....	1	1	....	....	....	....	....	....	1	....	....	....	1	
198. Capital punishment	M	3	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	198
Class XVIII.—Ill-Defined Causes of Death																													
Total	...	62	8	4	1	1	1	2	3	2	1	....	....	1	4	1	4	3	3	12	1	5	1	2	....	1	....	1	
	M	33	3	3	1	....	1	....	1	1	1	....	....	1	2	1	3	1	2	9	....	....	1	1	....	....	....	1	
	F	29	5	1	....	1	....	2	2	1	....	....	....	....	2	....	1	2	1	3	1	5	....	1	....	1	....	....	
199. Sudden death	M	20	1	....	....	....	....	....	....	1	....	....	....	1	2	1	3	....	2	6	....	....	1	1	....	....	....	1	199
	F	11	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	2	....	1	1	4	....	1	....	1	....	....	
200. Cause of death not specified or ill-defined	M	13	2	3	1	....	1	....	1	....	1	....	....	....	....	....	....	1	....	3	....	....	....	....	....	....	....	....	200
	F	18	5	1	....	1	....	2	2	1	....	....	....	....	1	....	1	....	1	2	....	1	....	....	....	....	....	....	

SPECIAL CLASSES OF ACCIDENTAL DEATHS

(Included also under the numbers of the International List above)

ONTARIO, 1938

A. Accidents in mines and quarries	M	54	....	....	....	....	....	....	1	2	4	11	12	17	4	2	....	....	1	....	....	....	....	....	....	....	....	....	A
B. Accidents caused by machines	M	45	....	....	....	....	....	....	1	2	4	6	4	5	2	5	7	4	3	1	1	....	....	....	....	....	....	....	B
	F	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
C. Railway accidents	M	64	....	1	....	1	....	....	....	4	4	5	5	1	7	1	12	8	5	3	3	2	....	....	....	....	....	2	C
	F	3	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	
D. Street-car accidents	M	9	....	....	....	1	....	....	....	1	....	1	....	....	....	....	2	....	1	3	....	....	....	....	....	....	....	....	D
	F	3	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	
E. Automobile and motorcycle accidents	M	500	1	3	7	5	8	20	18	38	51	34	47	35	20	36	33	34	20	34	24	12	13	5	1	....	1	....	E
	F	177	1	1	3	4	8	22	6	15	10	5	7	5	10	15	9	14	12	7	13	8	2	....	....	....	....	....	
F. Other land transportation	M	34	....	....	....	2	1	2	3	2	....	....	....	1	4	1	....	3	6	3	4	....	1	1	....	....	....	....	F
	F	5	....	....	....	....	1	1	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	
G. Water transportation	M	83	....	....	....	....	....	7	12	9	6	16	7	11	8	3	1	1	....	1	....	1	....	....	....	....	....	....	G
	F	2	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
H. Air transportation	M	8	....	....	....	....	....	....	1	1	1	3	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	H

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
DEATHS—ALL CAUSES														
Total	...	**36890**	**4687**	**882**	**945**	**1272**	**2447**	**6**	**186**	**2369**	**6143**	**7491**	**4**	**10350**
	M	19814	2643	566	656	794	1179	5	41	1124	3666	5141	3	3900
	F	17076	2044	316	289	478	1268	1	145	1245	2477	2350	1	6450
CLASS I.—INFECTIOUS AND PARASITIC DISEASES														
Total	...	2441	483	207	208	93	92	2	54	351	371	229	.....	348
	M	1338	232	104	144	71	51	2	9	177	248	168	.....	129
	F	1103	251	103	64	22	41	.....	45	174	123	61	.....	219
1. Typhoid fever	M	27	1	4	7	1	.....	.....	1	7	3	2	.....	1
	F	8	1	3	.....	.....	.....	.....	.....	1	2	.....	.....	1
2. Paratyphoid fever	M	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
	F	2	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
5. Undulant fever	M	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
7. Measles	M	14	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	17	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8. Scarlet fever	M	21	16	3	1	.....	.....	.....	.....	1	.....	.....	.....	.....
	F	28	17	6	.....	.....	.....	.....	1	3	.....	.....	.....	1
9. Whooping-cough	M	38	37	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	50	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10. Diphtheria	M	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	6	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
11. Influenza	M	322	53	11	8	8	29	.....	.....	25	42	94	.....	52
	F	296	53	7	6	6	21	.....	.....	17	27	38	.....	121
11A. Sole cause	M	18	5	.....	.....	1	2	.....	.....	1	.....	6	.....	3
	F	20	9	.....	.....	.....	1	.....	.....	.....	.....	1	.....	9
11B. With bronchitis	M	13	2	.....	.....	.....	1	.....	.....	1	3	3	.....	3
	F	16	1	.....	1	.....	3	.....	.....	.....	1	4	.....	6
11C. With pneumonia	M	173	23	6	7	6	15	.....	.....	16	25	48	.....	27
	F	129	16	4	2	2	10	.....	.....	13	15	24	.....	43
11D. With other diseases of the respiratory system	M	19	1	1	.....	.....	1	.....	.....	1	3	6	.....	6
	F	17	1	.....	.....	1	3	.....	.....	.....	1	2	.....	9
11E. With intestinal complications	M	22	7	2	.....	.....	1	.....	.....	1	1	8	.....	2
	F	31	9	1	.....	1	1	.....	.....	.....	2	1	.....	16
11F. With other causes	M	77	15	2	1	1	9	.....	.....	5	10	23	.....	11
	F	83	17	2	3	2	3	.....	.....	4	8	6	.....	38
13. Dysentery	M	20	10	2	.....	.....	1	.....	.....	.....	.....	5	.....	2
	F	16	6	1	.....	.....	1	.....	.....	1	1	.....	.....	6
15. Erysipelas	M	19	3	2	1	1	.....	.....	.....	3	2	2	.....	5
	F	15	4	.....	.....	.....	3	.....	.....	.....	2	1	.....	5
16. Poliomyelitis and polioencephalitis (acute)	M	15	7	6	1	.....	.....	.....	.....	.....	1	.....	.....	.....
	F	10	6	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....
17. Lethargic or epidemic encephalitis	M	6	2	.....	.....	2	.....	.....	.....	.....	1	.....	.....	1
	F	8	1	1	1	.....	.....	.....	1	.....	.....	2	.....	2
18. Epidemic cerebrospinal meningitis	M	9	7	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	F	7	6	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
22. Tetanus	M	10	3	1	3	.....	.....	.....	.....	1	1	1	.....	.....
	F	3	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....
23–32. Tuberculosis	M	678	48	69	110	40	17	2	8	128	155	46	.....	52
	F	559	64	81	57	14	13	.....	39	131	77	16	.....	67
23. Tuberculosis of the respiratory system	M	599	16	61	105	37	15	2	7	119	143	45	.....	46
	F	471	30	73	52	13	9	.....	34	122	64	13	.....	61
24. Tuberculosis of the meninges and central nervous system	M	31	25	3	1	.....	.....	.....	1	1	.....	.....	.....	.....
	F	34	25	4	.....	.....	.....	.....	2	.....	3	.....	.....	.....
25. Tuberculosis of the intestines and peritoneum	M	11	2	2	1	1	.....	.....	.....	1	2	1	.....	1
	F	14	4	2	.....	.....	.....	.....	1	4	1	1	.....	1
26. Tuberculosis of the vertebral column	M	11	2	1	2	.....	.....	.....	.....	2	3	.....	.....	1
	F	14	.....	1	3	.....	1	.....	.....	.....	6	.....	.....	3
27. Tuberculosis of the bones and joints (vertebral column excepted)	M	4	.....	1	.....	.....	1	.....	.....	.....	2	.....	.....	.....
	F	2	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
27A. Of bones	M	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938

	NATIVITY					MONTHS												
			Foreign															
Not stated	Canada	British	USA	Other	Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
108	**27538**	**6387**	**890**	**1960**	**115**	**3638**	**3014**	**3270**	**3171**	**3234**	**2892**	**2801**	**2792**	**2835**	**3013**	**2881**	**3349**	
96	14457	3513	472	1277	95	1909	1604	1723	1767	1758	1573	1546	1421	1544	1622	1606	1741	
12	13081	2874	418	683	20	1729	1410	1547	1404	1476	1319	1255	1371	1291	1391	1275	1608	
3	1897	301	53	185	5	299	195	236	234	203	183	168	161	185	188	169	220	
3	983	188	29	133	5	150	109	133	139	110	98	107	77	88	102	110	115	
....	914	113	24	52	....	149	86	103	95	93	85	61	84	97	86	59	105	
....	22	3	....	2	....	1	2	1	1	1	2	3	3	4	3	2	4	1
....	7	1	....	....	....	1	....	....	1	....	....	2	....	1	....	2	1	
....	....	....	1	1	....	....	1	....	....	1	....	....	....	....	....	....	....	2
....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	1	....	....	
....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	5
....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	
....	14	....	....	....	....	2	....	....	3	3	1	3	....	....	....	....	2	7
....	17	....	....	....	....	2	....	4	2	3	3	1	....	1	1	....	....	
....	21	....	....	....	....	....	2	4	1	....	....	1	3	1	1	6	2	8
....	27	1	....	....	....	4	3	3	2	2	4	2	1	2	1	1	3	
....	37	....	1	....	....	2	2	2	11	1	3	5	1	5	1	1	4	9
....	49	....	1	....	....	4	3	2	6	5	6	3	6	5	2	1	7	
....	5	....	....	....	....	2	1	....	....	....	....	....	....	....	....	2	....	10
....	5	1	....	....	....	2	1	....	....	1	1	....	....	1	....	....	....	
....	264	41	4	13	....	62	38	42	37	20	14	11	5	16	24	20	33	11
....	240	43	8	5	....	70	33	31	27	18	22	4	7	15	21	17	31	
....	17	1	....	....	....	3	1	6	3	....	1	....	....	1	1	....	2	11A
....	16	3	....	1	....	5	4	3	2	1	1	....	....	2	....	1	1	
....	11	1	....	1	....	1	2	1	2	....	2	....	....	1	1	1	2	11B
....	14	2	....	....	....	9	3	1	....	....	....	....	....	1	2	....	....	
....	136	24	4	9	....	43	20	21	20	10	7	5	3	6	12	11	15	11C
....	103	18	5	3	....	36	12	10	15	7	10	4	1	1	9	7	17	
....	15	2	....	2	....	4	5	3	1	....	1	....	....	3	2	....	....	11D
....	13	3	1	....	....	2	4	4	1	....	1	....	....	1	1	2	1	
....	20	2	....	....	....	1	1	4	2	....	....	3	2	3	2	2	2	11E
....	23	7	....	1	....	1	3	4	2	3	....	....	4	6	3	2	3	
....	65	11	....	1	....	10	9	7	9	10	3	3	....	2	6	6	12	11F
....	71	10	2	....	....	17	7	9	7	7	10	....	2	4	6	5	9	
....	17	2	1	....	....	....	....	1	....	....	2	1	4	5	3	3	1	13
....	15	1	....	....	....	....	....	1	....	....	....	1	3	4	4	1	2	
....	15	2	....	2	....	6	1	3	2	2	1	....	....	1	....	1	2	15
....	13	2	....	....	....	1	1	1	....	4	....	2	....	2	1	....	3	
....	12	1	1	1	....	....	....	1	....	1	3	1	4	2	1	2	....	16
....	10	....	....	....	....	....	....	1	1	....	....	2	3	1	2	....	....	
....	6	....	....	....	....	3	....	....	1	....	....	....	....	1	....	....	1	17
....	6	1	1	....	....	2	....	1	....	1	....	1	....	1	1	....	1	
....	9	....	....	....	....	....	1	2	2	....	1	....	....	1	1	....	1	18
....	7	....	....	....	....	1	....	1	1	1	....	....	1	....	1	1	....	
....	9	1	....	....	....	....	....	....	1	1	2	4	....	2	....	....	....	22
....	2	1	....	....	....	....	....	....	....	....	2	....	....	....	1	....	....	
3	455	114	17	88	4	59	48	59	67	65	57	63	42	45	59	64	50	23–32
....	458	54	10	37	....	56	38	51	49	49	40	40	56	54	44	33	49	
3	390	104	16	85	4	53	45	52	63	53	47	57	36	39	54	57	43	23
....	379	49	9	34	....	48	29	45	44	39	34	35	42	49	38	29	39	
....	30	1	....	....	....	2	1	3	3	6	5	2	3	3	1	1	1	24
....	33	....	....	1	....	5	3	2	2	4	2	2	5	1	2	1	5	
....	9	....	1	1	....	....	2	1	....	2	3	....	....	1	1	1	....	25
....	12	2	....	....	....	2	....	1	1	3	....	1	....	2	2	....	2	
....	8	2	....	1	....	4	....	1	1	....	....	....	1	1	....	2	1	26
....	13	1	....	....	....	1	1	2	1	....	....	1	2	1	1	2	2	
....	3	1	....	....	....	....	....	....	....	....	1	2	1	....	....	....	....	27
....	2	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	
....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	27A

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
27A. Of joints	M	3	.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	.....
	F	2	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
28. Tuberculosis of the skin and sub-cutaneous cellular tissue	M	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
29. Tuberculosis of the lymphatic system (bronchial, mesenteric and retroperitoneal glands excepted)	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
30. Tuberculosis of the genito-urinary system	M	7	.....	.....	.....	1	.....	.....	.....	3	3	.....	.....	.....
	F	12	1	1	2	.....	1	.....	1	3	3	.....	.....	.....
31. Tuberculosis of other organs	M	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	F	3	.....	.....	.....	1	1	.....	.....	1	.....	.....	.....	.....
32. Disseminated tuberculosis	M	12	3	1	1	.....	1	.....	.....	1	2	.....	.....	3
	F	8	4	.....	.....	.....	1	.....	1	.....	.....	1	.....	1
32A. Acute	M	4	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....	1
	F	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
32B. Chronic	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
32C. Not specified	M	8	2	1	.....	.....	1	.....	.....	.....	2	.....	.....	2
	F	4	1	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....
34. Syphilis	M	110	11	.....	12	18	2	.....	.....	6	31	14	.....	16
	F	50	10	2	.....	1	1	.....	.....	13	12	2	.....	9
35. Gonococcus infection and other venereal diseases	M	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	4	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
36. Purulent infection, septicaemia (non-puerperal)	M	22	9	2	1	1	1	.....	.....	1	6	1	.....	.....
	F	10	1	.....	.....	.....	1	.....	1	2	1	1	.....	3
38. Malaria	M	2	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
39. Other diseases due to protozoal parasites	M	2	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....
	F	4	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2
41. Hydatid cysts	M	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
41A. Of the liver	M	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
43. Mycoses	M	4	1	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....
	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
44. Other infectious or parasitic diseases	M	9	5	1	.....	.....	.....	.....	.....	1	2	.....	.....	.....
	F	7	6	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
44A. Chicken-pox	M	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
44C. Others under this title	M	7	4	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....
	F	6	5	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
CLASS II.—CANCER and OTHER TUMOURS														
Total	...	4780	48	33	73	228	319	1	8	346	1267	1138	.....	1313
	M	2188	22	19	30	96	153	.....	2	104	567	733	.....	457
	F	2592	26	14	43	132	166	1	6	242	700	405	.....	856
45-53. Cancer and other malignant tumours	M	2083	15	14	28	92	151	.....	2	92	545	704	.....	436
	F	2389	18	11	32	126	155	.....	5	204	646	381	.....	810
45. Cancer of the buccal cavity and pharynx	M	126	1	.....	.....	5	11	.....	.....	5	27	43	.....	33
	F	31	.....	.....	.....	1	2	.....	.....	4	3	12	.....	9
46. Cancer of the digestive tract and peritoneum	M	1200	1	5	17	62	90	.....	.....	44	316	418	.....	245
	F	1027	.....	5	6	40	79	.....	1	48	225	214	.....	409
46A. Of the oesophagus	M	60	.....	.....	.....	1	6	.....	.....	1	15	28	.....	9
	F	31	.....	.....	.....	3	2	.....	.....	2	4	6	.....	14
46B. of the stomach and duodenum	M	524	.....	.....	5	34	35	.....	.....	20	141	179	.....	108
	F	335	.....	.....	2	5	28	.....	.....	12	70	67	.....	151
46C. Of the rectum	M	162	.....	.....	3	3	16	.....	.....	9	41	51	.....	39
	F	91	.....	1	2	9	6	.....	.....	6	15	18	.....	34
46D. Of the liver and biliary ducts	M	101	.....	2	1	4	7	.....	.....	1	30	35	.....	21
	F	165	.....	2	.....	5	8	.....	.....	8	40	42	.....	60
46E. Of the pancreas	M	63	.....	.....	1	8	1	.....	.....	3	25	18	.....	7
	F	71	.....	.....	.....	1	8	.....	.....	3	14	14	.....	31

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

	NATIVITY					MONTHS												
			Foreign															
Not stated	Canada	British	USA	Other	Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
....	3	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	27B
....	2	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	
....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	28
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	29
....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	
....	4	3	....	....	....	....	....	....	....	2	1	....	1	1	....	....	2	30
....	9	2	....	1	....	....	2	1	....	2	2	....	2	....	1	1	1	
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	31
....	2	....	....	1	....	....	....	....	....	1	1	....	1	....	....	....	....	
....	8	3	....	1	....	....	....	2	....	2	....	1	....	....	2	2	3	32
....	7	....	1	....	....	....	3	....	1	....	....	....	4	....	....	....	....	
....	3	1	....	....	....	....	....	1	....	1	....	....	....	....	1	....	1	32A
....	3	....	....	....	....	....	2	....	1	....	....	....	....	....	....	....	....	
....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	32B
....	5	2	....	1	....	....	....	1	....	1	....	1	....	....	1	2	2	32C
....	3	....	1	....	....	....	1	....	....	....	....	....	3	....	....	....	....	
....	69	16	3	21	1	6	9	13	7	12	11	13	8	4	6	8	13	34
....	35	4	3	8	....	4	4	3	5	5	4	3	5	4	4	2	7	
....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	35
....	4	....	....	....	....	1	....	....	....	....	1	....	1	....	1	....	....	
....	15	4	1	2	....	5	1	....	3	3	....	2	1	1	3	1	2	36
....	7	2	....	1	....	1	2	1	1	2	....	....	....	2	....	....	1	
....	1	1	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	38
....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	
....	2	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	39
....	2	1	....	1	....	....	....	1	....	1	....	....	1	....	....	1	....	
....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	41
....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	41A
....	1	1	....	2	....	....	....	1	2	....	....	....	1	....	....	....	....	43
....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	
....	7	2	....	....	....	2	2	3	....	....	1	....	1	....	....	....	....	44
....	7	....	....	....	....	....	....	2	....	1	1	....	....	2	1	....	....	
....	2	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	44A
....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	
....	5	2	....	....	....	1	2	3	....	....	....	....	1	....	....	....	....	44C
....	6	....	....	....	....	....	....	1	....	1	1	....	....	2	1	....	....	
6	3257	1116	108	291	8	410	364	400	387	426	397	410	397	392	395	391	411	
5	1420	557	42	161	8	184	161	173	182	202	177	194	153	176	190	203	193	
1	1837	559	66	130	....	226	203	227	205	224	220	216	244	216	205	188	218	
4	1349	531	40	155	8	175	149	164	175	193	168	183	147	171	182	193	183	45–53
1	1691	524	54	120	....	210	193	199	186	202	206	203	229	200	184	175	202	
1	93	28	2	3	....	7	7	6	10	12	5	14	9	14	11	17	14	45
....	24	7	....	....	....	2	2	2	2	1	3	1	7	3	1	2	5	
2	759	309	27	98	7	108	80	106	94	104	94	100	87	95	113	118	101	46
....	720	228	23	56	....	86	90	93	72	101	89	92	95	86	74	64	85	
....	34	20	....	6	....	5	5	2	5	4	3	8	4	6	6	7	5	46A
....	19	8	....	4	....	5	2	3	2	5	3	3	....	2	2	2	2	
2	325	131	12	50	6	30	32	51	46	47	53	47	35	41	50	48	44	46B
....	233	77	7	18	....	30	32	33	24	34	32	30	30	23	23	17	27	
....	115	35	3	8	1	16	10	11	15	19	14	13	9	14	10	18	13	46C
....	77	9	3	2	....	9	9	10	3	8	4	6	6	7	13	6	10	
....	61	26	3	11	....	10	8	10	5	5	4	6	13	11	10	12	7	46D
....	108	34	5	18	....	13	13	17	16	21	14	12	12	15	9	11	12	
....	39	13	3	8	....	6	4	6	3	4	7	11	8	4	5	3	1	46E
....	44	18	4	5	....	9	6	5	8	4	6	7	8	6	2	4	6	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
46F. Of the peritoneum	M	4	.....	1	.....	.....	.....	.....	.....	1	1	1	.....	.....
	F	7	.....	.....	.....	.....	1	.....	.....	2	2	1	.....	1
46G. Of other organs	M	286	1	2	7	12	25	.....	.....	9	63	106	.....	61
	F	327	.....	2	2	17	26	.....	1	15	80	66	.....	118
47. Cancer of the respiratory organs	M	128	.....	1	1	11	4	.....	1	12	57	25	.....	16
	F	62	1	2	3	5	4	.....	.....	6	23	4	.....	14
47A. Of the larynx	M	34	.....	.....	.....	4	2	.....	.....	.....	11	10	.....	7
	F	8	.....	.....	.....	.....	.....	.....	.....	.....	3	1	.....	4
47B. Of the lung	M	72	.....	1	.....	6	1	.....	1	10	35	11	.....	7
	F	38	.....	1	2	4	3	.....	.....	3	16	1	.....	8
47C. Of the mediastinum	M	7	.....	.....	1	.....	.....	.....	.....	.....	2	2	.....	2
	F	6	.....	.....	.....	.....	1	.....	.....	3	1	1	.....	.....
47D. Of other organs of the respiratory system	M	15	.....	.....	.....	1	1	.....	.....	2	9	2	.....	.....
	F	10	1	1	1	1	.....	.....	.....	.....	3	1	.....	2
48. Cancer of the uterus	F	381	.....	.....	5	18	14	.....	1	54	129	45	.....	115
48A. Of the uterus	F	241	.....	.....	3	16	12	.....	1	21	81	31	.....	76
48B. Of the cervix uteri	F	140	.....	.....	2	2	2	.....	.....	33	48	14	...	39
49. Cancer of other female genital organs	F	135	1	.....	5	13	12	.....	1	17	33	14	.....	39
50. Cancer of the breast	M	2	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
	F	494	.....	.....	8	37	31	.....	1	51	174	54	.....	137
51. Cancer of the male genito-urinary organs	M	399	.....	2	3	6	32	.....	1	5	82	164	.....	103
51A. Of the bladder	M	107	.....	.....	.....	4	8	.....	.....	3	26	39	.....	27
51B. Of the kidney	M	25	.....	.....	.....	.....	1	.....	1	.....	15	6	.....	2
51C. Of the prostate gland	M	249	.....	1	.....	2	23	.....	.....	.....	32	117	.....	73
51D. Of the testicles and annexa	M	13	.....	1	3	.....	.....	.....	.....	2	5	2	.....	.....
51E. Of other male genito-urinary organs	M	5	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	1
52. Cancer of the skin	M	46	.....	.....	.....	.....	5	.....	.....	2	8	16	.....	15
	F	37	.....	.....	.....	2	1	.....	.....	2	4	3	.....	25
53. Cancer of other or unspecified organs	M	182	13	6	7	8	9	.....	.....	24	54	37	.....	24
	F	222	16	4	5	10	12	.....	1	22	55	35	.....	62
53A. Of the eye and orbit	M	5	1	.....	.....	.....	1	.....	.....	.....	.....	1	.....	2
	F	6	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	3
63C. Of the glandular system	M	44	1	1	3	1	2	.....	.....	5	12	12	.....	7
	F	31	.....	.....	1	1	3	.....	.....	1	9	7	.....	9
53D. Of the female urinary organs	F	62	2	.....	.....	2	4	.....	.....	3	13	17	.....	21
53E. Of the bones and joints	M	25	2	2	.....	2	2	.....	.....	4	7	5	.....	1
	F	24	4	1	1	2	1	.....	.....	5	4	.....	.....	6
53F. Of the brain	M	44	5	2	1	3	.....	.....	.....	9	21	1	.....	2
	F	40	7	3	3	3	.....	.....	1	10	9	1	.....	3
53G. Of the spine and spinal cord	M	12	1	.....	.....	1	.....	.....	.....	1	5	2	.....	2
	F	9	1	.....	.....	1	1	.....	.....	.....	4	.....	.....	2
53H. Of the neck	M	6	.....	.....	1	.....	1	.....	.....	.....	.....	2	.....	2
53I. Of the abdomen	M	14	3	.....	1	.....	1	.....	.....	1	3	4	.....	1
	F	17	.....	.....	.....	.....	.....	.....	.....	1	5	3	.....	8
53J. Of other specified organs	M	21	.....	1	.....	1	2	.....	.....	1	5	8	.....	3
	F	14	1	.....	.....	.....	1	.....	.....	.....	1	4	.....	7
53K. Multiple cancer	M	7	.....	.....	.....	.....	.....	.....	.....	3	.....	1	.....	3
	F	10	.....	.....	.....	1	1	.....	.....	1	5	1	.....	1
53M. Of unspecified or unknown location	M	4	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	1
	F	9	.....	.....	.....	.....	.....	.....	.....	1	4	2	.....	2
54. Non-malignant tumours	M	80	6	5	1	2	2	.....	.....	7	14	23	.....	19
	F	181	7	3	11	6	9	1	1	36	47	19	.....	41
54A. Of the ovary	F	42	.....	2	2	2	4	.....	1	12	7	4	.....	8
54B. Of the uterus	F	44	.....	.....	7	2	1	.....	.....	12	10	.....	.....	12
54D. Of the brain	M	25	4	3	.....	1	.....	.....	.....	6	7	1	.....	2
	F	15	3	.....	1	.....	.....	.....	.....	5	5	1	.....	.....
54E. Of the thyroid gland	M	7	.....	.....	1	.....	.....	.....	.....	.....	1	2	.....	3
	F	55	.....	1	.....	2	4	.....	.....	3	20	10	.....	15
54F. Of the prostate gland	M	29	.....	.....	.....	1	2	.....	.....	.....	2	17	.....	7
54G. Of other or unspecified sites	M	19	2	2	.....	.....	.....	.....	.....	1	4	3	.....	7
	F	25	4	.....	1	.....	.....	1	.....	4	5	4	.....	6
55. Tumours, nature not specified	M	25	1	.....	1	2	.....	.....	.....	5	8	6	.....	2
	F	22	1	.....	.....	.....	2	.....	.....	2	7	5	.....	5
55B. Of the uterus	F	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
55D. Of the brain	M	17	1	.....	.....	2	.....	.....	.....	4	6	4	.....	.....
	F	9	1	.....	.....	.....	.....	.....	.....	2	3	2	.....	1
55G. Of other or unspecified sites	M	8	.....	.....	1	.....	.....	.....	.....	1	2	2	.....	2
	F	12	.....	.....	.....	.....	2	.....	.....	.....	3	3	.....	4

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

	NATIVITY					MONTHS												
			Foreign															
Not stated	Canada	British	USA	Other	Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
....	2	2	....	....	....	2	....	....	....	....	....	....	....	1	....	1	....	46F
....	6	1	....	....	....	....	1	....	....	1	....	3	1	....	1	....	....	
....	183	82	6	15	....	39	21	26	20	25	12	15	18	18	32	29	31	46G
....	233	81	4	9	....	20	27	25	19	28	30	31	38	33	24	24	28	
....	47	59	1	21	....	12	8	9	11	16	11	12	9	7	12	11	10	47
....	45	13	....	4	....	6	2	1	4	3	10	6	8	5	8	5	4	
....	15	15	....	4	....	2	5	3	3	4	2	2	3	2	3	3	2	47A
....	8	....	....	....	....	2	....	....	1	2	....	....	2	....	....	....	1	
....	26	33	1	12	....	7	2	3	7	11	6	9	4	5	7	6	5	47B
....	24	12	....	2	....	1	2	1	2	....	8	5	4	3	4	5	3	
....	3	4	....	....	....	2	....	1	....	....	1	....	....	....	1	1	1	47C
....	4	1	....	1	....	....	....	....	....	....	1	1	1	1	2	....	....	
....	3	7	....	5	....	1	1	2	1	1	2	1	2	....	1	1	2	47D
....	9	....	....	1	....	3	....	....	1	1	1	....	1	1	2	....	....	
....	255	92	10	24	....	37	30	41	33	26	33	32	30	30	26	33	30	48
....	167	54	7	13	....	20	19	27	19	22	24	22	19	20	15	16	18	48A
....	88	38	3	11	....	17	11	14	14	4	9	10	11	10	11	17	12	48B
	86	38	4	7	....	15	13	9	12	14	7	14	8	8	9	10	16	49
....	2	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	50
1	354	109	10	21	....	41	30	38	39	38	47	41	51	41	42	41	45	
1	285	93	7	14	....	31	35	29	37	43	30	32	20	34	31	35	42	51
....	74	27	1	5	....	9	8	7	11	12	8	9	4	9	5	11	14	51A
....	15	8	....	2	....	2	3	3	3	1	1	1	2	3	3	2	1	51B
1	184	54	5	6	....	18	22	19	21	27	19	19	13	21	22	22	26	51C
....	8	4	....	1	....	1	1	....	2	2	1	3	1	....	1	....	1	51D
....	4	....	1	....	....	1	1	....	....	1	1	....	....	1	....	....	....	51E
....	38	5	1	1	1	5	5	2	2	6	4	5	5	3	4	2	3	52
....	29	8	....	....	....	5	1	....	2	3	1	5	4	3	6	3	4	
....	125	37	2	18	....	12	14	12	20	12	23	20	17	18	11	10	13	53
....	178	29	7	8	....	18	25	15	22	16	16	12	26	24	18	17	13	
....	4	1	....	....	....	....	....	2	1	....	....	....	....	2	....	....	....	53A
....	5	....	1	....	....	1	....	....	....	....	1	....	1	....	1	....	2	
....	31	7	1	5	....	....	4	5	6	4	6	2	2	5	1	3	6	53C
....	27	3	....	1	....	1	3	5	3	1	3	1	3	3	....	5	3	
....	54	5	1	2	....	4	6	6	9	2	3	2	2	12	6	7	3	53D
....	16	4	....	5	....	2	4	2	2	....	....	2	6	....	5	1	1	53E
....	18	3	2	1	....	2	3	1	4	1	2	1	2	2	3	2	1	
....	26	13	1	4	....	2	3	1	7	3	4	9	3	4	3	4	1	53F
....	31	7	....	2	....	4	6	1	5	3	2	4	5	4	3	1	2	
....	11	....	....	1	....	2	....	1	....	1	3	3	1	....	....	....	1	53G
....	8	1	....	....	....	2	1	....	....	1	1	1	1	....	1	1	....	
....	4	1	....	1	....	2	....	....	....	2	1	....	....	1	....	....	....	53H
....	10	3	....	1	....	1	2	1	2	1	3	1	1	....	....	....	2	53I
....	10	4	2	1	....	2	3	1	....	2	2	1	4	1	1	....	....	
....	16	4	....	1	....	3	1	....	1	....	6	1	3	3	2	1	....	53J
....	13	....	....	1	....	2	1	....	....	3	1	....	5	....	1	....	1	
....	5	2	....	....	....	....	....	....	....	1	....	....	1	3	....	1	1	53K
....	6	4	....	....	....	....	1	....	1	1	....	2	1	1	1	1	1	
....	2	2	....	....	....	....	....	....	1	....	....	2	....	....	....	....	1	53N
....	6	2	1	....	....	....	1	1	....	2	1	....	2	1	1	....	....	
1	57	18	1	4	....	7	11	7	7	7	7	6	4	5	5	7	7	54
....	135	27	11	8	....	14	9	26	16	22	13	10	14	14	17	12	14	
....	33	4	2	3	....	2	1	8	4	4	3	1	6	3	4	1	5	54A
....	29	10	2	3	....	4	3	4	6	8	1	3	2	4	5	2	2	54B
1	21	3	....	1	....	1	4	3	3	1	2	2	1	2	2	2	2	54D
....	11	3	1	....	....	1	3	1	2	1	1	1	1	2	1	....	1	
....	6	1	....	....	....	1	1	....	1	1	....	....	....	1	1	1	....	54E
....	47	6	....	2	....	5	1	11	2	2	7	4	5	1	5	8	4	
....	19	7	1	2	....	3	4	3	3	3	2	4	1	....	1	1	4	54F
....	11	7	....	1	....	2	2	1	.	2	3	....	2	2	1	3	1	54G
....	15	4	6	....	....	2	1	2	2	7	1	1	....	4	2	1	2	
....	14	8	1	2	....	2	1	2	....	2	2	5	2	....	3	3	3	55
....	11	8	1	2	....	2	1	2	3	....	1	3	1	2	4	1	2	
....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	55B
....	10	4	1	2	....	....	1	1	....	1	1	4	2	....	2	3	2	55D
....	4	4	1	....	....	....	....	....	1	....	1	1	....	2	2	....	2	
....	4	4	....	....	....	2	....	1	....	1	1	1	....	....	1	....	1	55G
....	6	4	....	2	....	2	1	2	1	....	....	2	1	....	2	1	....	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES														
Total	..	1095	125	50	22	34	52	.....	6	89	239	205	.....	273
	M	418	61	28	11	19	21	.....	.....	34	84	101	.....	59
	F	677	64	22	11	15	31	.....	6	55	155	104	.....	214
56. Acute rheumatic fever	M	84	20	19	6	4	.....	.....	.....	14	13	5	.....	3
	F	81	18	14	7	.....	1	.....	3	22	12	2	.....	2
57. Chronic rheumatism, osteo-arthritis	M	19	.....	1	1	1	6	.....	.....	1	2	3	.....	4
	F	27	.....	.....	1	1	5	.....	.....	1	2	3	.....	14
59. Diabetes mellitus	M	230	2	5	3	13	14	.....	.....	9	49	88	.....	47
	F	354	8	4	.....	7	18	.....	1	14	85	73	.....	144
61. Beriberi	F	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
62. Pellagra	F	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
63. Rickets	M	8	7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	7	6	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
64. Osteomalacia	F	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
65. Diseases of the pituitary gland	M	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
	F	7	2	.....	.....	.....	.....	.....	.....	1	2	.....	.....	2
66. Diseases of the thyroid and parathyroid glands	M	40	5	1	1	1	1	.....	.....	8	15	4	.....	4
	F	149	7	3	3	4	7	.....	2	13	46	21	.....	43
66A. Simple goitre	M	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2
	F	21	1	1	.....	1	2	.....	.....	.....	5	5	.....	6
66B. Exophthalmic goitre	M	29	.....	.....	1	1	1	.....	.....	8	13	3	.....	2
	F	111	1	1	3	2	4	.....	2	11	38	15	.....	34
66C. Myxoedema, cretinism	F	10	1	1	.....	1	.....	.....	.....	2	2	1	.....	2
66D. Tetany	M	6	5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
66E. Others under this title	M	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
	F	3	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	1
67. Diseases of the thymus gland	M	24	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	21	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
68. Diseases of the adrenals (Addison's disease)	M	2	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	F	5	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	2
69. Other general diseases	M	10	3	.....	.....	.....	.....	.....	.....	1	4	1	.....	1
	F	23	2	1	.....	2	.....	.....	.....	2	4	5	.....	7
69A. Fatty or amyloid degeneration	M	5	1	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	1
	F	10	.....	.....	.....	1	.....	.....	.....	1	1	4	.....	3
69C. Others under this title	M	5	2	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....
	F	13	2	1	.....	1	.....	.....	.....	1	3	1	.....	4
CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS														
Total	...	500	35	20	19	20	43	.....	2	38	80	114	.....	129
	M	231	21	11	9	15	21	.....	.....	13	37	66	.....	38
	F	269	14	9	10	5	22	.....	2	25	43	48	.....	91
70. Haemorrhagic conditions	M	5	.....	1	.....	1	.....	.....	.....	.....	2	.....	.....	1
	F	11	3	.....	.....	1	1	.....	.....	2	3	.....	.....	1
70A. Simple purpura	M	2	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....
	F	10	3	.....	.....	1	1	.....	.....	2	3	.....	.....	.....
70B. Haemophilia	M	3	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	1
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
71. Anaemia	M	129	6	2	2	9	17	.....	.....	1	14	50	.....	28
	F	180	2	4	4	2	20	.....	1	6	25	42	.....	74
71A. Pernicious anaemia	M	116	3	2	1	8	15	.....	.....	1	13	47	.....	26
	F	155	1	3	4	1	17	.....	1	6	20	37	.....	65
71B. Others under this title	M	13	3	.....	1	1	2	.....	.....	.....	1	3	.....	2
	F	25	1	1	.....	1	3	.....	.....	.....	5	5	.....	9
72. Leukaemia and aleukaemia	M	86	14	7	6	4	4	.....	.....	7	20	16	.....	8
	F	64	8	4	6	1	1	.....	1	11	14	4	.....	14
72A. Leukaemia	M	61	13	6	5	4	2	.....	.....	3	11	11	.....	6
	F	54	8	4	3	1	1	.....	1	10	14	2	.....	10
72B. Aleukaemia (Hodgkin's disease)	M	25	1	1	1	.....	2	.....	.....	4	9	5	.....	2
	F	10	.....	.....	3	.....	.....	.....	.....	1	.....	2	.....	4

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
....	814	182	24	74	1	119	96	93	92	84	84	81	66	88	100	92	100	
....	314	60	8	35	1	47	31	34	39	35	32	33	27	34	36	34	36	
....	500	122	16	39	....	72	65	59	53	49	52	48	39	54	64	58	64	
....	65	10	3	6	....	11	7	7	7	8	12	7	6	3	8	4	4	56
....	62	13	1	5	....	7	12	8	7	6	6	7	4	5	7	6	6	
....	14	2	....	3	....	2	....	1	3	4	2	....	....	1	1	1	4	57
....	20	7	....	....	....	1	3	1	1	1	4	3	1	1	3	6	2	
....	163	39	5	22	1	24	16	20	24	19	11	19	15	23	18	23	18	59
....	250	72	10	22	....	44	31	30	30	31	26	18	18	25	38	32	31	
....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	61
....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	
....	8	....	....	....	....	2	....	1	....	1	1	....	....	....	2	1	....	63
....	7	....	....	....	....	....	....	2	....	1	....	2	1	....	....	....	1	
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	64
....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	65
....	4	1	1	1	....	2	1	....	....	1	....	....	....	1	....	1	1	
....	30	8	....	2	....	2	5	2	4	3	6	4	5	1	3	2	3	66
....	116	24	2	7	....	15	14	11	10	8	11	11	12	15	13	11	18	
....	1	2	....	....	....	....	....	1	1	....	....	....	1	....	....	....	....	66A
....	17	3	1	....	....	2	1	3	2	1	1	2	3	2	2	....	2	
....	21	6	....	2	....	1	4	1	2	3	5	3	2	1	3	2	2	66B
....	85	19	1	6	....	11	11	5	8	7	9	8	8	10	9	9	16	
....	8	2	....	....	....	1	1	2	....	....	....	1	1	2	1	1	....	66C
....	6	....	....	....	....	1	1	....	....	....	1	1	1	....	....	....	1	66D
....	4	....	....	....	....	1	....	1	....	....	1	....	....	1	....	....	....	
....	2	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	66E
....	2	....	....	1	....	....	1	....	....	....	....	....	....	....	1	1	....	
....	24	....	....	....	....	4	2	3	1	....	....	2	1	4	2	....	5	67
....	21	....	....	....	....	....	3	4	2	1	1	2	....	2	1	1	4	
....	1	....	....	1	....	....	....	....	....	....	....	1	....	1	....	....	....	68
....	4	1	....	....	....	1	....	....	....	....	1	....	1	1	....	....	1	
....	9	1	....	....	....	1	1	....	....	....	....	....	....	1	2	3	2	69
....	16	3	1	3	....	2	1	3	2	....	3	4	2	4	1	1	....	
....	4	1	....	....	....	....	....	....	....	....	....	....	....	....	2	2	1	69A
....	6	1	1	2	....	1	1	1	....	....	2	....	1	2	1	1	....	
....	5	....	....	....	....	1	1	....	....	....	....	....	....	1	....	1	1	69C
....	10	2	....	1	....	1	....	2	2	....	1	4	1	2	....	....	....	
....	371	101	9	19	....	64	40	49	36	28	49	40	31	37	41	31	54	
....	175	41	3	12	....	34	13	22	17	13	24	16	12	12	26	18	24	
....	196	60	6	7	....	30	27	27	19	15	25	24	19	25	15	13	30	
....	5	....	....	....	....	....	1	....	....	1	....	....	....	....	1	1	1	70
....	7	2	....	2	....	2	2	1	....	....	1	1	2	....	1	....	1	
....	2	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	1	70A
....	6	2	....	2	....	2	2	1	....	....	1	1	1	....	1	....	1	
....	3	....	....	....	....	....	....	....	....	1	....	....	....	....	1	1	....	70B
....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	
....	104	18	3	4	....	15	7	12	11	7	18	9	7	7	13	11	12	71
....	134	40	4	2	....	21	13	20	15	12	12	16	8	22	9	11	21	
....	92	18	2	4	....	14	7	12	7	7	16	7	5	7	13	11	10	71A
....	117	32	4	2	....	17	13	17	13	11	11	14	5	18	9	7	20	
....	12	...	1	....	....	1	....	....	4	....	2	2	2	....	....	....	2	71B
....	17	8	....	....	....	4	....	3	2	1	1	2	3	4	....	4	1	
....	58	21	....	7	....	15	4	10	6	5	6	6	4	4	12	4	10	72
....	44	15	2	3	....	6	11	6	4	2	10	5	5	2	5	....	8	
....	45	13	....	3	....	9	3	10	4	4	5	5	2	2	8	2	7	72A
....	37	14	1	2	....	5	8	5	3	2	8	5	4	1	5	....	8	
....	13	8	....	4	....	6	1	....	2	1	1	1	2	2	4	2	3	72B
....	7	1	1	1	....	1	3	1	1	....	2	....	1	1	....	....	....	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
73. Diseases of the spleen..	M	11	1	1	1	1	....	....	....	5	1	....	....	1
	F	10	1	1	....	....	....	....	....	5	1	1	....	1
74. Other diseases of the blood and blood-forming organs............	F	4	....	....	....	1	....	....	....	1	....	1	....	1
CLASS V.—CHRONIC POISON- AND INTOXICATIONS														
Total............	...	65	2	....	9	9	4	....	1	9	18	4	....	8
	M	58	....	....	8	9	4	....	1	7	17	3	....	8
	F	7	2	....	1	....	....	....	....	2	1	1	....	....
75. Alcoholism...........	M	54	....	....	8	8	4	....	....	6	16	3	....	8
	F	4	....	....	1	....	....	....	....	2	1	....	....	....
75A. Delirium tremens......	M	3	....	....	....	....	....	....	....	....	1	1	....	1
	F	1	....	....	....	....	....	....	....	1	....	....	....	....
75B. Other alcoholic intoxications............	M	51	....	....	8	8	4	....	....	6	15	2	....	7
	F	3	....	....	1	....	....	....	....	1	1	....	....	....
76. Chronic poisoning, by other organic substances.............	M	3	....	....	....	1	....	....	1	1	....	....	....	....
	F	1	....	....	....	....	....	....	....	....	....	1	....	....
76A. Chronic morphinism...	M	1	....	....	....	....	....	....	1	....	....	....	....	....
	F	1	....	....	....	....	....	....	....	....	....	1	....	....
76B. Chronic cocainism.....	M	1	....	....	....	....	....	....	....	....	1	....	....	....
76D. Other organic poisoning	M	1	....	....	....	1	....	....	....	....	....	....	....	....
77. Chronic poisoning by mineral substances....	M	1	....	....	....	....	....	....	....	....	1	....	....	....
	F	2	2	....	....	....	....	....	....	....	....	....	....	....
77A. Lead (including occupational)...............	F	2	2	....	....	....	....	....	....	....	....	....	....	....
77C. Others under this title..	M	1	....	....	....	....	....	....	....	....	1	....	....	....
CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE														
Total............	...	1724	156	41	82	96	132	....	4	82	273	361	....	490
	M	881	87	23	56	56	64	....	2	41	154	238	....	155
	F	843	69	18	26	40	68	....	2	41	119	123	....	335
78. Encephalitis (non-epidemic)..............	M	17	4	3	1	....	1	....	....	3	1	....	....	2
	F	13	2	1	1	2	....	....	....	3	3	....	....	1
79. Simple meningitis......	M	21	14	1	....	....	....	....	....	3	3	....	....	....
	F	27	17	1	....	1	....	....	....	5	1	....	....	2
80. Progressive locomotor ataxia (tabes dorsalis).	M	12	....	....	....	7	....	....	....	....	2	1	....	2
	F	3	....	....	....	....	....	....	....	....	....	1	....	2
81. Other diseases of the spinal cord..........	M	57	1	2	2	5	6	....	....	....	15	18	....	8
	F	55	3	1	1	4	2	....	....	3	10	11	....	20
82. Cerebral haemorrhage, cerebral embolism and thrombosis..........	M	375	1	1	5	16	36	....	1	13	57	145	....	99
	F	415	1	1	4	9	44	....	....	6	62	67	....	220
82A. Cerebral haemorrhage..	M	312	1	1	5	14	28	....	1	11	46	124	....	80
	F	324	1	1	2	7	33	....	....	4	49	54	....	173
82B. Cerebral embolism and thrombosis..........	M	39	....	....	....	1	6	....	....	1	7	14	....	10
	F	42	....	....	....	1	8	....	....	1	6	6	....	19
82C. Softening of the brain..	M	4	....	....	....	....	....	....	....	....	2	2	....	....
	F	2	....	....	....	....	....	....	....	....	....	....	....	2
82D. Hemiplegia and other paralysis, cause not specified............	M	20	....	....	....	1	2	....	....	1	2	5	....	9
	F	47	....	....	2	1	3	....	....	1	7	7	....	26
83. General paralysis of the insane..............	M	50	....	....	6	4	2	....	....	9	24	3	....	2
	F	13	....	1	....	....	1	....	....	1	2	3	....	5
84. Dementia praecox and other psychoses.....	M	70	....	4	20	16	5	....	....	4	7	5	....	9
	F	86	....	1	7	15	9	....	....	10	12	11	....	20
84A. Dementia praecox.....	M	58	....	2	18	16	3	....	....	4	5	3	....	7
	F	67	....	1	7	13	9	....	....	7	7	7	....	15

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
....	8	2	....	1	....	4	1	....	....	....	....	1	1	1	....	2	1	73
....	8	2	....	....	....	....	1	....	....	....	2	1	3	1	....	2	....	
....	3	1	....	....	....	1	....	....	....	1	....	1	1	....	....	....	....	74
1	47	9	....	8	1	5	3	8	4	7	7	2	5	3	7	7	7	
1	42	8	....	7	1	3	3	8	4	7	7	2	4	3	6	6	5	
....	5	1	....	1	....	2	....	....	....	....	....	....	1	....	1	1	2	
1	39	7	....	7	1	3	3	6	4	7	6	2	4	3	6	6	4	75
....	2	1	....	1	....	2	....	....	....	....	....	....	1	....	....	....	1	
....	3	....	....	....	....	....	....	1	....	....	....	....	....	....	1	1	....	75A
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	
1	36	7	....	7	1	3	3	5	4	7	6	2	4	3	5	5	4	75B
....	1	1	....	1	....	2	....	....	....	....	....	....	1	....	....	....	....	
....	3	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	1	76
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	76A
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	
....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	76B
....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	76D
....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	77
....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	
....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	77A
....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	77C
7	1316	261	38	103	6	188	152	158	140	158	144	135	116	135	139	124	135	
5	659	136	13	70	3	89	83	79	76	85	72	67	52	66	73	67	72	
2	657	125	25	33	3	99	69	79	64	73	72	68	64	69	66	57	63	
2	14	1	....	2	....	3	2	1	1	3	3	1	....	1	2	....	....	78
....	10	2	....	1	....	1	....	2	2	2	2	1	1	....	1	....	1	
....	17	2	....	1	1	4	....	1	2	3	1	3	....	....	5	....	2	79
....	21	4	1	1	....	....	4	2	1	3	3	....	1	1	4	4	4	
....	8	3	....	1	....	3	1	1	....	2	....	1	1	....	1	....	2	80
....	2	1	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	
....	42	9	4	2	....	6	9	3	1	7	4	6	3	4	5	3	6	81
....	48	5	....	1	1	7	5	7	4	3	2	6	4	7	3	5	2	
1	265	77	5	27	1	36	39	29	32	32	30	22	25	35	32	31	32	82
1	315	67	14	17	2	53	31	34	33	37	36	35	27	27	39	24	39	
1	223	66	4	18	1	34	33	26	26	25	26	19	20	28	24	26	25	82A
....	249	52	9	12	2	41	24	27	23	28	30	28	21	20	36	16	30	
....	26	6	1	6	....	....	4	2	6	7	3	1	3	5	4	2	2	82B
1	34	5	2	1	....	6	3	4	5	4	3	2	1	4	2	4	4	
....	3	....	....	1	....	....	1	....	....	....	....	1	....	....	....	....	2	82C
....	1	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	1	
....	13	5	....	2	....	2	1	1	....	....	1	1	2	2	4	3	3	82D
....	31	10	2	4	....	5	4	3	5	5	3	5	5	3	1	4	4	
....	32	5	....	13	....	3	5	7	3	6	4	6	2	3	4	3	4	83
....	9	3	....	1	....	2	2	....	2	2	....	1	....	1	1	1	1	
....	48	9	....	12	1	11	8	10	9	7	5	4	6	2	2	6	....	84
1	63	12	3	8	....	13	9	9	5	9	7	5	7	10	4	5	3	
....	38	7	....	12	1	9	8	8	8	3	4	4	6	2	1	5	....	84A
1	46	11	3	7	....	11	7	8	5	7	7	2	4	6	3	5	2	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
84B. Other psychoses	M	12	....	2	2	....	2	....	....	....	2	2	....	2
	F	19	....	....	....	2	....	....	....	3	5	4	....	5
85. Epilepsy	M	37	6	7	12	3	2	....	....	3	1	1	....	2
	F	36	4	6	7	3	3	....	1	1	5	2	....	4
86. Convulsions (under 5 years of age)	M	17	17	....	....	....	....	....	....	....	....	....	....	....
	F	14	14	....	....	....	....	....	....	....	....	....	....	....
87. Other diseases of the nervous system	M	148	7	1	7	4	9	....	....	3	31	59	....	26
	F	136	10	4	4	5	8	....	....	6	18	24	....	57
87A. Chorea	M	1	....	....	....	....	....	....	....	....	....	1	....	....
	F	2	....	2	....	....	....	....	....	....	....	....	....	....
87B. Neuralgia and neuritis	M	11	1	1	....	1	....	....	....	1	1	4	....	2
	F	12	2	....	....	....	1	....	....	2	2	1	....	4
87C. Paralysis agitans	M	72	....	....	3	1	7	....	....	....	12	35	....	14
	F	50	....	....	....	1	3	....	....	....	7	12	....	27
87D. Sclerosis (other than of the spinal cord)	M	42	....	....	2	1	1	....	....	2	10	15	....	10
	F	44	....	1	2	3	1	....	....	4	8	6	....	19
87E. Others under this title	M	22	6	....	2	1	1	....	....	....	8	4	....	....
	F	28	8	1	2	1	3	....	....	....	1	5	....	7
88. Diseases of the organs of vision	M	11	....	....	1	1	3	....	....	1	1	3	....	1
	F	7	....	....	1	....	1	....	....	1	1	1	....	2
89. Diseases of the ear and mastoid process	M	66	37	4	2	....	....	....	1	2	12	3	....	4
	F	38	18	2	1	1	....	....	1	5	5	3	....	2
89A. Otitis	M	39	24	1	1	....	....	....	1	1	5	3	....	3
	F	25	13	1	1	....	....	....	1	3	3	1	....	2
89B. Diseases of the mastoid process	M	27	13	3	1	....	....	....	....	1	7	....	....	1
	F	13	5	1	....	1	....	....	....	2	2	2	....	....
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM														
Total	..	12296	33	39	100	402	1076	1	7	356	2101	3387	1	4746
	M	6606	14	17	66	257	504	1	2	197	1343	2340	....	1824
	F	5690	19	22	34	145	572	....	5	159	758	1047	1	2922
90–95. Diseases of the heart	M	4237	12	16	60	201	285	1	1	174	1033	1375	....	1046
	F	3117	19	20	28	93	308	....	4	125	463	559	1	1495
90. Pericarditis	M	8	....	....	....	....	....	....	....	....	3	....	....	5
	F	4	....	....	....	....	....	....	....	....	3	1	....	....
91. Acute endocarditis	M	44	2	6	3	1	1	....	....	13	11	5	....	2
	F	37	4	5	9	2	1	....	2	8	1	2	....	3
91A. Endocarditis, specified as acute	M	36	1	3	2	1	1	....	....	10	11	5	....	2
	F	27	3	4	6	2	1	....	1	5	1	2	....	2
92B. Endocarditis, unspecified (under 45 years of age)	M	8	1	3	1	....	....	....	....	3	....	....	....	....
	F	10	1	1	3	....	....	....	1	3	....	....	...	1
92. Chronic endocarditis, valvular diseases	M	507	3	1	12	21	44	....	....	35	105	143	....	135
	F	493	4	7	8	11	46	....	1	39	75	85	....	217
92A. Endocarditis specified as chronic and other valvular diseases	M	411	3	1	12	14	36	....	....	35	91	115	....	96
	F	406	4	7	8	11	32	....	1	39	58	73	....	173
92B. Enodcarditis, unspecified (45 years and over)	M	96	....	....	....	7	8	....	....	....	14	28	....	39
	F	87	....	....	....	....	14	....	....	....	17	12	....	44
93. Diseases of the myocardium	M	1058	6	4	16	40	104	....	....	26	133	369	....	350
	F	1147	7	5	7	35	126	....	....	24	124	185	....	633
93A. Acute myocarditis	M	62	1	1	2	3	5	....	....	2	11	21	....	15
	F	63	1	....	1	3	1	....	....	3	13	9	....	32
93B. Myocarditis, unspecified (under 45 years of age)	M	26	5	2	6	....	....	....	....	12	....	....	....	1
	F	23	5	4	3	....	....	....	....	11	....	....	....	....
93C. Chronic myocarditis and myocardial degeneration	M	614	....	1	8	20	68	....	....	12	77	213	....	207
	F	685	1	1	3	20	80	....	....	10	78	108	....	383
93D. Myocarditis, unspecified (45 years and over)	M	356	....	....	....	17	31	....	....	....	45	135	....	127
	F	376	....	....	....	12	45	....	....	....	33	68	....	218

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign USA	Foreign Other	Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
....	10	2	....	....	....	2	....	2	1	4	1	....	....	....	1	1	....	84B
....	17	1	....	1	....	2	2	1	....	2	....	3	3	4	1	....	1	
....	34	1	....	2	....	1	2	1	5	2	3	5	5	3	3	5	2	85
....	32	3	....	1	....	3	3	4	1	2	7	1	9	2	....	3	1	
....	17	....	....	....	....	2	2	5	....	2	....	2	....	1	1	2	....	86
....	14	....	....	....	....	2	....	4	....	....	....	1	3	3	....	1	....	
1	118	20	2	8	....	14	9	12	14	15	17	11	10	12	9	11	14	87
....	104	24	6	2	....	9	10	15	10	14	11	16	9	14	9	10	9	
....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	87A
....	2	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	
....	7	3	....	1	....	3	1	....	3	....	....	....	....	1	....	1	2	87B
....	10	....	1	1	....	1	....	2	2	1	2	2	1	....	....	1	....	
....	60	8	1	3	....	5	5	8	4	7	11	5	6	7	4	6	4	87C
....	39	8	2	1	....	4	2	5	5	6	3	6	3	6	2	3	5	
1	32	7	1	2	....	4	1	3	4	5	4	5	3	2	2	3	6	87D
....	30	13	1	....	....	4	4	3	2	5	3	6	2	5	5	2	3	
....	19	2	....	1	....	2	2	1	3	3	1	1	1	2	3	1	2	87E
....	23	3	2	....	....	....	4	5	1	1	3	2	3	3	2	3	1	
....	9	2	....	....	....	1	1	2	2	2	....	....	....	....	1	2	....	88
....	5	1	1	....	....	2	....	....	1	....	....	1	....	1	....	1	1	
1	55	7	2	2	....	5	5	7	7	4	5	6	....	5	8	4	10	89
....	34	3	....	1	....	7	5	2	5	1	4	....	3	2	5	2	2	
....	32	6	1	....	....	5	2	2	4	3	3	4	....	3	5	2	6	89A
....	23	1	....	1	....	5	2	1	4	....	3	....	2	2	2	2	2	
1	23	1	1	2	....	....	3	5	3	1	2	2	....	2	3	2	4	89B
....	11	2	....	....	....	2	3	1	1	1	1	....	1	....	3	....	....	
47	8832	2486	350	582	46	1219	990	1124	1090	1118	945	898	865	885	982	992	1188	
41	4659	1361	197	351	38	660	526	615	597	586	524	484	449	498	520	527	620	
6	4173	1125	153	231	8	559	464	509	493	532	421	414	416	387	462	465	568	
33	2887	936	121	264	29	430	336	379	386	356	356	326	289	294	337	341	407	90–95
2	2255	638	87	133	4	319	244	301	257	278	223	228	219	200	257	260	331	
....	5	3	....	....	....	1	1	....	1	....	2	....	1	....	1	....	1	90
....	4	....	....	....	....	1	....	....	....	....	....	2	....	1	....	....	....	
....	30	3	4	7	....	4	1	7	3	3	4	5	5	....	6	4	2	91
....	28	7	....	2	....	2	1	7	6	3	1	3	1	4	5	1	3	
....	23	3	3	7	....	3	1	6	1	3	4	2	5	....	5	4	2	91A
....	22	4	....	1	....	1	1	5	3	3	1	2	1	3	4	1	2	
..	7	....	1	....	....	1	....	1	2	....	....	3	....	....	1	....	....	91B
....	6	3	...	1	....	1	....	2	3	....	....	1	....	1	1	....	1	
8	370	100	12	20	5	60	44	47	41	43	41	35	34	39	34	37	52	92
....	369	86	14	24	....	53	53	50	39	44	35	34	30	32	41	38	44	
8	299	83	9	15	5	51	30	38	33	37	31	31	25	32	27	31	45	92A
....	299	75	12	20	....	42	47	42	36	32	26	27	22	28	39	28	37	
....	71	17	3	5	....	9	14	9	8	6	10	4	9	7	7	6	7	92B
....	70	11	2	4	....	11	6	8	3	12	9	7	8	4	2	10	7	
10	724	232	23	72	7	103	88	117	94	88	78	81	70	62	94	85	98	93
1	831	241	27	46	2	134	77	109	89	101	80	84	81	76	87	98	131	
1	43	12	1	5	1	9	6	7	4	6	3	3	7	3	5	6	3	93A
....	48	9	2	4	....	10	5	5	5	4	3	2	8	1	5	6	9	
....	20	2	2	2	....	3	2	4	4	....	2	1	1	3	2	1	3	93B
....	17	4	....	2	....	3	1	1	1	3	....	5	2	2	1	3	1	
8	409	141	15	45	4	52	47	68	55	50	58	51	35	37	52	50	59	93C
1	494	151	13	26	1	82	43	64	52	63	49	50	49	43	49	51	90	
1	252	77	5	20	2	39	33	38	31	32	15	26	27	19	35	28	33	93D
....	272	77	12	14	1	39	28	39	31	31	28	27	22	30	32	38	31	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
94. Diseases of the coronary arteries and angina pectoris	M	2413	.....	2	23	128	118	1	1	90	730	809	.....	498
	F	1280	1	1	3	40	117	.....	1	45	245	257	1	569
94A. Diseases of the coronary arteries	M	83	.....	.....	1	9	2	.....	.....	5	25	25	.....	14
	F	40	.....	.....	.....	1	3	.....	.....	.....	11	7	.....	18
94B. Embolism and thrombosis of the coronary arteries	M	2073	.....	1	21	106	105	1	1	76	630	692	.....	429
	F	1093	1	1	3	33	101	.....	1	42	213	210	1	487
94C. Angina pectoris	M	257	.....	1	1	13	11	.....	.....	9	75	92	.....	55
	F	147	.....	.....	.....	6	13	.....	.....	3	21	40	.....	64
95. Other diseases of the heart	M	207	1	3	6	11	18	.....	.....	10	51	49	.....	56
	F	156	3	2	1	5	18	.....	.....	9	15	29	.....	73
95A. Functional diseases of heart	M	34	.....	.....	2	1	2	.....	.....	1	10	12	.....	6
	F	32	.....	1	.....	3	3	.....	.....	1	5	4	.....	15
95B. Other and unspecified	M	173	1	3	4	10	16	.....	.....	9	41	37	.....	50
	F	124	3	1	1	2	15	.....	.....	8	10	25	.....	58
96. Aneurysm (except of the heart)	M	43	1	1	.....	3	.....	.....	1	4	14	12	.....	7
	F	22	.....	1	.....	1	1	.....	.....	5	3	1	.....	10
97. Arteriosclerosis (of coronary arteries excepted)	M	1908	.....	.....	.....	35	196	.....	.....	4	209	802	.....	660
	F	1963	.....	.....	.....	34	230	.....	.....	8	153	381	.....	1154
98. Gangrene	M	62	.....	.....	1	.....	5	.....	.....	.....	3	26	.....	27
	F	50	.....	.....	.....	2	7	.....	.....	.....	3	7	.....	31
99. Other diseases of the arteries	M	20	.....	.....	.....	3	1	.....	.....	.....	2	7	.....	5
	F	15	.....	.....	.....	.....	1	.....	.....	1	2	4	.....	7
100. Diseases of the veins (varices, haemorrhoids, phlebitis, etc)	M	33	1	.....	1	2	.....	.....	.....	2	9	12	.....	6
	F	41	.....	.....	3	1	2	.....	.....	1	11	8	.....	15
101. Diseases of the lymphatic system (lymphangitis, etc)	M	5	.....	.....	.....	.....	.....	.....	.....	1	.....	3	.....	1
	F	3	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	1
102. Idiopathic abnormalities of blood pressure	M	297	.....	.....	4	13	17	.....	.....	12	73	102	.....	72
	F	477	.....	.....	3	14	23	.....	1	18	123	86	.....	208
103. Other diseases of the circulatory system	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
	F	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM														
Total	...	3004	658	72	71	89	191	.....	9	175	433	505	.....	793
	M	1662	377	50	45	57	93	.....	3	84	303	346	.....	298
	F	1342	281	22	26	32	98	.....	6	91	130	159	.....	495
104. Diseases of the nasal fossae and annexa	M	25	9	4	.....	.....	.....	.....	.....	3	6	1	.....	2
	F	16	10	2	1	1	.....	.....	.....	.....	2	.....	.....	.....
105. Diseases of the larynx	M	18	14	.....	.....	.....	1	.....	.....	.....	1	1	.....	1
	F	6	4	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....
105A. Croup	M	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
105B. Other diseases of the larynx	M	15	11	.....	.....	.....	1	.....	.....	.....	1	1	.....	1
	F	6	4	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....
106. Bronchitis	M	48	16	3	1	2	4	.....	.....	1	5	9	.....	6
	F	40	9	.....	.....	.....	6	.....	.....	2	1	7	.....	15
106A. Acute	M	23	16	.....	1	.....	.....	.....	.....	.....	1	2	.....	3
	F	19	7	.....	.....	.....	4	.....	.....	.....	.....	1	.....	7
106B. Chronic	M	20	.....	3	.....	2	2	.....	.....	1	3	5	.....	3
	F	16	.....	.....	.....	.....	2	.....	.....	2	1	5	.....	6
106C. Unspecified	M	5	.....	.....	.....	.....	2	.....	.....	.....	1	2	.....	.....
	F	5	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2
107. Bronchopneumonia	M	658	212	13	16	18	42	.....	.....	14	73	136	.....	130
	F	614	170	8	11	14	42	.....	.....	24	55	62	.....	227
107A. Bronchopneumonia	M	656	212	13	16	18	42	.....	.....	14	73	135	.....	129
	F	612	168	8	11	14	42	.....	.....	24	55	62	.....	227
107B. Capillary bronchitis	M	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
	F	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
13	1615	556	79	148	15	244	188	192	224	197	217	186	161	178	177	204	245	94
....	913	270	44	52	1	114	100	127	107	114	97	96	93	72	106	115	139	
2	48	22	.....	10	3	13	2	4	6	5	9	11	4	7	3	10	9	94A
....	23	15	1	1	....	4	4	5	2	4	.....	4	4	3	2	3	5	
11	1391	471	69	130	12	210	167	163	193	168	182	157	139	164	157	169	204	94B
....	777	228	38	49	1	89	86	107	95	93	90	79	76	65	95	100	118	
....	176	63	10	8	....	21	19	25	25	24	26	18	18	7	17	25	32	94C
....	113	27	5	2	....	21	10	15	10	17	7	13	13	4	9	12	16	
2	143	42	3	17	2	18	14	16	23	25	14	19	18	15	25	11	9	95
1	110	34	2	9	1	15	13	8	16	16	10	9	14	15	18	8	14	
....	29	8	.....	1	....	6	2	3	4	2	4	4	3	1	2	2	1	95A
....	22	6	1	3	....	3	3	4	3	6	1	2	3	.....	4	1	2	
2	118	34	3	16	2	12	12	13	19	23	10	15	15	14	23	9	8	95B
1	88	28	1	6	1	12	10	4	13	10	9	7	11	15	14	7	12	
....	26	10	1	5	1	3	4	4	2	8	5	1	2	7	2	3	2	96
....	14	8	.....	.....	....	1	1	1	.....	.....	.....	1	5	4	4	1	4	
2	1440	343	58	63	4	181	156	196	173	192	122	121	124	165	151	146	181	97
3	1478	380	48	54	3	178	170	156	183	207	153	139	146	142	154	159	176	
....	49	8	3	2	....	7	5	7	4	5	3	10	7	4	.....	4	6	98
....	38	10	.....	2	....	11	3	3	4	5	4	3	5	3	2	4	3	
2	15	3	.....	.....	2	4	.....	3	1	2	1	2	1	1	2	2	1	99
....	11	4	.....	.....	....	1	.....	4	1	3	2	.....	1	.....	2	.....	1	
....	21	7	4	1	....	3	2	2	4	2	5	1	3	3	2	2	4	100
....	28	8	.....	5	....	1	4	2	9	2	2	5	3	6	3	.....	4	
....	4	1	.....	.....	....	.....	2	1	1	.....	.....	1	.....	.....	.....	.....	.....	101
....	2	1	.....	.....	....	.....	.....	.....	.....	1	.....	.....	.....	.....	2	.....	.....	
4	216	53	10	16	2	32	21	23	26	21	31	22	23	24	26	29	19	102
1	345	76	18	37	1	47	42	42	39	36	37	38	37	32	38	41	48	
....	1	.....	.....	.....	....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	103
....	2	.....	.....	.....	....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	
8	2261	519	62	159	3	411	271	298	271	281	207	179	137	149	223	224	353	
6	1207	312	31	110	2	224	145	171	158	156	113	112	59	93	115	138	178	
2	1054	207	31	49	1	187	126	127	113	125	94	67	78	56	108	86	175	
....	18	5	.....	2	....	3	3	3	2	.....	.....	5	3	1	1	1	3	104
....	15	1	.....	.....	....	1	2	2	1	1	1	1	.....	1	4	1	1	
....	17	1	.....	.....	....	.....	2	2	.....	2	1	1	1	.....	5	3	1	105
....	5	1	.....	.....	....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	3	1	
....	3	.....	.....	.....	....	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	105A
....	14	1	.....	.....	....	.....	1	1	.....	1	1	1	1	.....	5	3	1	105B
....	5	1	.....	.....	....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	3	1	
1	40	5	1	2	....	4	4	10	5	.....	4	3	1	1	4	10	2	106
....	31	6	1	2	....	5	1	2	6	4	4	1	.....	3	3	5	6	
....	23	.....	.....	.....	....	1	3	6	4	.....	2	1	.....	.....	3	3	.....	106A
....	15	3	1	.....	....	5	1	1	2	2	1	.....	.....	1	1	3	2	
1	13	4	1	2	....	2	1	4	.....	.....	2	2	1	1	.....	6	1	106B
....	12	3	.....	1	....	.....	.....	1	4	2	1	1	.....	2	.....	1	4	
....	4	1	.....	.....	....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1	1	106C
....	4	.....	.....	1	....	.....	.....	.....	.....	.....	2	.....	.....	.....	2	1	.....	
4	495	110	8	43	2	80	57	59	62	61	43	49	28	44	44	56	75	107
1	484	90	16	24	....	84	58	56	51	60	39	33	41	28	49	41	74	
4	493	110	8	43	2	80	57	59	61	61	43	49	28	44	44	55	75	107A
1	482	90	16	24	....	84	57	56	51	60	39	33	41	28	49	40	74	
....	2	.....	.....	.....	....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	107B
....	2	.....	.....	.....	....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
108. Lobar pneumonia......	M	554	58	22	18	22	25	.....	2	51	137	129	.....	90
	F	402	54	8	8	11	22	.....	5	49	42	61	.....	142
109. Pneumonia, unspecified	M	149	52	.....	5	4	13	.....	.....	4	18	25	.....	28
	F	118	26	1	3	3	15	.....	1	4	5	13	.....	46
110. Pleurisy	M	40	4	3	.....	2	1	.....	.....	6	19	1	.....	4
	F	19	4	2	1	.....	.....	.....	.....	3	1	1	.....	7
111. Congestion and haemorrhagic infarct of the lung, etc............	M	31	6	.....	.....	.....	1	.....	.....	1	3	8	.....	12
	F	45	.....	.....	.....	1	6	.....	.....	.....	.....	5	.....	33
111A. Pulmonary embolism and thrombosis.......	M	8	2	.....	.....	.....	1	.....	.....	1	1	2	.....	1
	F	4	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	3
111B. Others under this title.	M	23	4	.....	.....	.....	.....	.....	.....	.....	2	6	.....	11
	F	41	.....	.....	.....	1	5	.....	.....	.....	.....	5	.....	30
112. Asthma...............	M	98	1	4	4	6	4	.....	.....	2	30	27	.....	20
	F	70	2	1	2	1	6	.....	.....	6	20	10	.....	22
113. Pulmonary emphysema.	M	4	.....	.....	.....	.....	1	.....	.....	1	.....	1	.....	1
	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
114. Other diseases of the respiratory system (tuberculosis excepted)...	M	37	5	1	1	3	1	.....	1	1	11	8	.....	4
	F	11	1	.....	.....	1	.....	.....	.....	3	3	.....	.....	3
114A. Chronic interstitial pneumonia including occupational diseases of the respiratory system...............	M	9	.....	.....	.....	.....	1	.....	.....	.....	2	5	.....	1
114B. Gangrene of the lung..	M	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
114C. Others under this title.	M	27	5	1	1	2	.....	.....	1	1	9	3	.....	3
	F	10	1	.....	.....	1	.....	.....	.....	2	3	.....	.....	3
CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM														
Total..............	...	2355	525	86	66	100	76	.....	9	203	468	335	.....	481
	M	1318	293	59	46	62	38	.....	1	112	298	235	.....	168
	F	1037	232	27	20	38	38	.....	8	91	170	100	.....	313
115. Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations).....	M	87	19	7	1	4	3	.....	.....	13	19	11	.....	10
	F	71	19	5	1	3	2	.....	1	5	16	5	.....	14
115A. Diseases of the buccal cavity and annexa....	M	32	.....	1	.....	3	3	.....	.....	1	10	7	.....	7
	F	26	2	1	.....	2	2	.....	.....	1	9	.....	9	.....
115B. Diseases of the tonsils.	M	25	10	4	1	.....	.....	.....	.....	5	4	1	.....	.....
	F	18	5	3	1	.....	.....	.....	.....	3	4	1	.....	1
115C. Others under this title.	M	30	9	2	.....	1	.....	.....	.....	7	5	3	.....	3
	F	27	12	1	.....	1	.....	.....	1	1	3	4	.....	4
116. Diseases of the oesophagus..............	M	2	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
	F	5	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
117. Ulcer of the stomach or duodenum...........	M	253	.....	3	11	19	10	.....	.....	29	100	50	.....	30
	F	42	1	.....	.....	3	2	.....	.....	6	11	5	.....	14
117A. Ulcer of the stomach..	M	120	.....	2	8	10	3	.....	.....	11	48	21	.....	16
	F	31	1	.....	.....	1	2	.....	.....	5	8	2	.....	12
117B. Ulcer of the duodenum	M	133	.....	1	3	9	7	.....	.....	18	52	29	.....	14
	F	11	.....	.....	.....	2	.....	.....	.....	1	3	3	.....	2
118. Other diseases of the stomach.............	M	27	6	.....	.....	2	1	.....	.....	2	5	6	.....	5
	F	19	3	.....	.....	.....	3	.....	1	.....	4	.....	.....	8
119. Diarrhoea and enteritis (under 2 years of age).	M	174	174	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	138	138	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
120. Diarrhoea and enteritis (2 years and over)....	M	99	21	3	5	4	6	.....	.....	6	12	22	.....	18
	F	97	12	7	4	2	4	.....	.....	10	10	11	.....	37
120A. Diarrhoea and enteritis	M	66	20	1	.....	2	5	.....	.....	1	7	4	.....	15
	F	70	12	3	2	1	4	.....	.....	4	5	9	.....	30
120B. Ulceration of the intestines................	M	33	1	2	5	2	1	.....	.....	5	5	8	.....	3
	F	27	.....	4	2	1	.....	.....	.....	6	5	2	.....	7

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
....	384	121	15	34	....	94	47	59	61	57	36	26	11	23	37	43	60	108
....	312	64	7	18	1	64	46	39	37	33	29	19	16	12	29	19	59	
....	118	21	2	8	....	23	17	23	12	13	8	9	4	6	7	8	19	109
1	97	16	3	2	....	23	8	18	5	12	5	4	8	7	6	7	15	
....	26	7	2	5	....	9	1	2	3	7	....	2	3	3	4	4	2	110
....	16	3	....	....	....	1	....	1	4	2	1	1	3	....	1	2	3	
....	24	7	....	....	....	1	2	1	4	3	3	4	....	3	2	3	5	111
....	34	9	1	1	....	5	2	3	2	5	2	4	4	2	6	4	6	
....	7	1	....	....	....	....	....	....	....	1	2	1	....	1	1	....	2	111A
....	3	....	....	1	....	1	....	....	....	....	....	....	1	....	1	....	1	
....	17	6	....	....	....	1	2	1	4	2	1	3	....	2	1	3	3	111B
....	31	9	1	....	....	4	2	3	2	5	2	4	3	2	5	4	5	
....	62	24	3	9	....	8	8	10	5	8	15	8	5	9	8	5	9	112
....	54	13	2	1	....	4	5	4	6	7	10	4	5	3	8	4	10	
....	2	2	....	....	....	....	....	....	....	1	....	....	1	1	....	1	....	113
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	
1	21	9	....	7	....	2	4	2	4	4	3	5	2	2	3	4	2	114
....	5	4	1	1	....	....	4	1	....	1	3	....	1	....	1	....	....	
....	4	4	....	1	....	....	....	....	1	2	....	2	....	....	2	1	1	114A
....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	114B
....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	
1	16	5	....	6	....	2	4	2	3	2	3	3	1	2	1	3	1	114C
....	5	3	1	1	....	....	4	....	....	1	3	....	1	....	1	....	....	
6	1800	375	51	125	4	185	175	181	176	192	171	183	249	268	195	183	197	
6	987	212	28	87	4	101	102	104	105	102	92	95	142	160	105	98	112	
....	813	163	23	38	....	84	73	77	71	90	79	88	107	108	90	85	85	
....	68	10	4	5	....	9	6	12	3	8	7	8	6	6	6	4	12	115
....	57	7	2	5	....	9	7	5	5	7	5	5	5	3	3	5	12	
....	23	5	2	2	....	4	2	6	1	4	....	3	3	3	1	3	2	115A
....	20	3	1	2	....	3	2	2	....	3	2	2	3	1	2	2	4	
....	22	2	1	....	....	1	1	3	1	1	3	2	2	1	3	1	6	115B
....	15	....	....	3	....	4	2	1	3	1	1	....	....	....	....	1	5	
....	23	3	1	3	....	4	3	3	1	3	4	3	1	2	2	....	4	115C
....	22	4	1	....	....	2	3	2	2	3	2	3	2	2	1	2	3	
....	2	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	116
....	5	....	....	....	....	....	1	1	....	....	1	....	....	1	....	1	....	
1	160	69	3	20	1	20	19	22	22	30	19	19	18	24	24	17	19	117
....	29	9	....	4	....	2	4	3	2	7	5	3	3	2	3	1	7	
1	81	24	1	13	1	10	8	11	10	16	9	6	8	13	12	7	10	117A
....	21	7	....	3	....	1	1	3	1	7	4	2	3	1	1	....	7	
....	79	45	2	7	....	10	11	11	12	14	10	13	10	11	12	10	9	117B
....	8	2	....	1	....	1	3	....	1	....	1	1	....	1	2	1	....	
....	21	2	....	4	....	....	3	4	6	1	2	1	1	1	2	2	4	118
....	15	4	....	....	....	3	1	2	2	1	2	2	1	2	1	2	....	
....	173	....	1	....	....	5	15	9	8	9	9	17	29	45	16	9	3	119
....	138	....	....	....	....	10	4	7	6	5	7	8	22	39	20	8	2	
2	81	11	2	4	1	4	3	4	4	7	5	4	11	25	8	14	10	120
....	82	9	4	2	....	4	3	6	8	9	4	4	17	16	10	9	7	
1	57	5	1	2	1	4	2	3	1	6	2	1	10	18	6	9	4	120A
....	59	7	2	2	....	2	2	5	5	4	3	3	16	13	9	5	3	
1	24	6	1	2	....	....	1	1	3	1	3	3	1	7	2	5	6	120B
....	23	2	2	....	....	2	1	1	3	5	1	1	1	3	1	4	4	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Under 15	Single					Married					Widowed
				15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	
121. Appendicitis	M	202	41	36	13	2	1	.....	1	30	52	19	.....	7
	F	128	32	12	6	8	1	.....	4	16	24	5	.....	20
122. Hernia, intestinal obstruction	M	226	23	7	7	15	13	.....	.....	16	41	51	.....	52
	F	160	11	.....	2	8	12	.....	.....	17	30	17	.....	63
122A. Hernia	M	109	2	3	3	7	8	.....	.....	2	23	27	.....	33
	F	62	3	.....	.....	2	4	.....	.....	2	18	7	.....	26
122B. Intestinal obstruction	M	117	21	4	4	8	5	.....	.....	14	18	24	.....	19
	F	98	8	.....	2	6	8	.....	.....	15	12	10	.....	37
123. Other diseases of the intestines	M	22	2	1	.....	.....	1	.....	.....	1	3	7	.....	7
	F	25	2	.....	1	1	1	.....	.....	.....	7	3	.....	10
124. Cirrhosis of the liver	M	89	.....	.....	5	9	.....	.....	.....	4	29	22	.....	20
	F	65	.....	1	2	5	1	.....	.....	7	16	6	.....	27
124A. Specified as alcoholic	M	8	.....	.....	1	1	.....	.....	.....	.....	1	2	.....	3
	F	4	.....	.....	1	.....	.....	.....	.....	1	1	.....	.....	1
124B. Not specified as alcoholic	M	81	.....	.....	4	8	.....	.....	.....	4	28	20	.....	17
	F	61	.....	1	1	5	1	.....	.....	6	15	6	.....	26
125. Other diseases of the liver	M	25	3	1	.....	1	2	.....	.....	3	5	7	.....	3
	F	27	4	1	.....	3	1	.....	.....	5	4	3	.....	6
125A. Yellow atrophy of the liver	M	5	1	.....	.....	.....	.....	.....	.....	1	1	.....	.....	2
	F	7	1	.....	.....	1	.....	.....	.....	3	2	.....	.....	.....
125B. Others under this title	M	20	2	1	.....	1	2	.....	.....	2	4	7	.....	1
	F	20	3	1	...	2	1	.....	.....	2	2	3	.....	6
126. Biliary calculi	M	47	.....	.....	1	3	1	.....	.....	3	13	19	.....	6
	F	118	.....	.....	.....	4	3	.....	1	14	28	21	.....	47
127. Other diseases of the gall-bladder and biliary passages	M	49	.....	.....	2	3	.....	.....	.....	2	15	18	.....	8
	F	114	.....	1	2	1	7	.....	.....	5	16	23	.....	59
128. Diseases of the pancreas	M	6	.....	1	1	.....	.....	.....	.....	.....	3	.....	.....	1
	F	8	.....	.....	1	.....	.....	.....	1	2	1	1	.....	2
129. Peritonitis, cause not specified	M	10	4	.....	.....	.....	.....	.....	.....	2	1	2	.....	1
	F	20	8	.....	1	.....	1	.....	.....	4	3	.....	.....	3
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM														
Total	...	2780	46	39	44	78	231	1	3	158	443	810	.....	927
	M	1676	25	18	34	51	134	1	.....	54	274	632	.....	453
	F	1104	21	21	10	27	97	.....	3	104	169	178	.....	474
130. Acute nephritis (including unspecified, under 10 years of age)	M	35	9	1	1	2	1	.....	.....	7	6	3	.....	5
	F	28	9	3	1	1	2	.....	.....	6	3	.....	.....	3
131. Chronic nephritis	M	728	4	8	16	23	53	1	.....	26	162	254	.....	181
	F	671	3	11	2	17	70	.....	2	49	102	123	.....	292
132. Nephritis, unspecified (10 years and over)	M	235	2	3	5	8	19	.....	.....	11	39	85	.....	63
	F	203	3	2	4	7	11	.....	1	9	22	34	.....	110
133. Other diseases of the kidneys and ureters	M	70	7	3	7	1	7	.....	.....	3	13	20	.....	9
	F	79	6	2	1	2	8	.....	.....	5	13	9	.....	33
134. Calculi of the urinary passages	M	40	.....	1	.....	2	2	.....	.....	2	15	11	.....	7
	F	11	.....	.....	.....	.....	.....	.....	.....	2	5	2	.....	2
135. Diseases of the bladder (tumours excepted)	M	50	2	2	3	4	4	.....	.....	1	4	15	.....	15
	F	41	.....	.....	.....	.....	5	.....	.....	4	4	7	.....	21
136. Diseases of the urethra, urinary abscess, etc	M	18	.....	.....	.....	3	3	.....	.....	.....	5	5	.....	2
	F	2	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
136A. Stricture of the urethra	M	15	.....	.....	.....	1	3	.....	.....	.....	5	4	.....	2
136B. Others under this title	M	3	.....	.....	.....	2	.....	.....	.....	.....	.....	1	.....	.....
	F	2	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
137. Diseases of the prostate	M	493	.....	.....	1	8	45	.....	.....	3	28	238	.....	170
138. Diseases of the male genital organs (not specified as venereal)	M	7	1	.....	1	.....	.....	.....	.....	1	2	1	.....	1
139. Diseases of the female genital organs (not specified as venereal)	F	69	.....	2	2	.....	1	.....	.....	29	19	3	.....	13

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
....	162	31	3	6	....	16	11	17	19	13	15	17	28	18	13	14	21	121
....	106	16	3	3	....	7	8	10	10	12	18	10	13	11	9	9	11	
1	165	38	5	18	....	24	24	21	22	13	15	19	21	16	14	14	23	122
....	107	38	6	9	....	20	9	12	12	16	8	18	17	7	15	12	14	
1	73	24	4	8	....	9	11	11	14	7	7	5	6	9	9	7	14	122A
....	34	21	4	3	....	7	5	5	5	10	3	6	5	3	5	1	7	
....	92	14	1	10	....	15	13	10	8	6	8	14	15	7	5	7	9	122B
....	73	17	2	6	....	13	4	7	7	6	5	12	12	4	10	11	7	
....	14	4	3	1	....	3	1	.....	2	3	1	1	3	1	2	4	1	123
....	18	6	.....	1	....	3	6	1	.....	.....	2	4	2	2	3	1	1	
....	57	19	2	11	....	11	10	8	7	4	7	4	10	7	7	8	6	124
....	45	18	1	1	....	6	5	3	3	5	3	9	6	8	4	7	6	
....	5	3	.....	.....	....	.....	2	.....	.....	.....	1	2	1	.....	1	.....	1	124A
....	1	3	.....	.....	....	.....	1	1	.....	.....	.....	1	1	.....	.....	.....	.....	
....	52	16	2	11	....	11	8	8	7	4	6	2	9	7	6	8	5	124B
....	44	15	1	1	....	6	4	2	3	5	3	8	5	8	4	7	6	
....	16	4	1	4	....	2	2	.....	2	3	2	2	3	2	4	1	2	125
....	23	2	1	1	....	4	3	2	3	2	1	2	.....	1	4	3	2	
....	2	1	1	1	....	.....	.....	.....	.....	.....	.....	.....	1	1	1	1	1	125A
....	5	1	1	.....	....	.....	1	.....	.....	1	.....	1	.....	.....	1	1	2	
....	14	3	.....	3	....	2	2	.....	2	3	2	2	2	1	3	.....	1	125B
....	18	1	.....	1	....	4	2	2	3	1	1	1	.....	1	3	2	.....	
1	28	7	3	8	1	4	1	5	4	4	3	1	4	8	5	5	3	126
....	85	25	1	7	....	3	12	15	15	9	10	10	9	7	9	9	10	
1	28	15	1	4	1	2	6	2	5	6	4	1	4	4	4	6	5	127
....	84	22	4	4	....	12	10	10	4	12	10	7	6	8	7	15	13	
....	6	.....	.....	.....	....	.....	.....	.....	1	.....	1	.....	1	2	.....	.....	1	128
....	4	3	1	.....	....	.....	.....	.....	1	2	.....	1	2	1	.....	1	.....	
....	6	2	.....	2	....	1	1	.....	.....	.....	2	1	2	1	.....	.....	2	129
....	15	4	.....	1	....	1	.....	.....	.....	3	4	4	4	.....	2	2	.....	
....	2079	522	67	107	5	280	236	237	246	257	211	193	211	206	239	241	223	
....	1227	340	38	68	3	162	137	124	156	169	131	116	127	127	149	142	136	
....	852	182	29	39	2	118	99	113	90	88	80	77	84	79	90	99	87	
....	26	7	.....	2	....	1	4	.....	3	4	4	2	3	4	2	3	5	130
....	28	.....	.....	.....	....	4	1	4	2	1	1	3	2	.....	2	5	3	
....	541	138	13	34	2	60	60	67	60	77	56	61	62	46	58	64	57	131
....	519	117	13	21	1	71	62	63	45	59	54	45	50	50	51	64	57	
....	185	33	5	12	....	24	20	14	25	22	20	12	14	22	19	24	19	132
....	153	31	11	8	....	18	16	22	24	18	14	15	10	13	22	14	17	
....	51	16	1	2	....	7	4	4	7	10	3	3	4	5	7	7	9	133
....	62	10	3	4	....	8	7	8	9	6	3	4	9	4	8	7	6	
....	26	9	3	2	....	2	4	2	2	3	6	5	2	4	7	1	2	134
....	7	4	.....	.....	....	.....	3	2	1	.....	1	1	2	.....	.....	.....	1	
....	35	12	2	1	....	3	1	3	7	5	4	7	4	7	3	4	2	135
....	30	7	1	2	1	3	5	5	4	2	4	5	4	3	1	3	2	
....	14	3	.....	1	....	3	3	2	.....	1	.....	4	.....	2	2	1	.....	136
....	1	1	.....	.....	....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	
....	11	3	.....	1	....	3	2	1	.....	1	.....	4	.....	2	1	1	.....	136A
....	3	.....	.....	.....	....	.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	136B
....	1	1	.....	.....	....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	
....	344	120	14	14	1	62	40	31	51	46	38	21	38	36	51	38	41	137
....	5	2	.....	.....	....	.....	1	1	1	1	.....	1	.....	1	.....	.....	1	138
....	52	12	1	4	....	14	4	9	5	2	3	4	7	8	6	6	1	139

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
139A. Of the ovary, Fallopian tube and parametrium	F	25	....	1	1	....	....	....	....	13	5	1	....	4
139B. Of the uterus	F	42	....	1	1	....	1	....	....	16	12	2	....	9
139C. Of the breast	F	2	....	....	....	....	....	....	....	....	2	....	....	....
CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH, AND THE PUERPERAL STATE														
Total	...	251	....	11	8	....	....	....	49	181	1	....	....	1
140. Abortion with septic conditions	F	26	....	2	2	....	....	....	5	17	....	....	....	....
140A. Abortion	F	12	....	....	....	....	....	....	2	10	....	....	....	....
140B. Self-induced abortion	F	14	....	2	2	....	....	....	3	7	....	....	....	....
141. Abortion without mention of septic conditions (haemorrhage included)	F	9	....	1	....	....	....	....	....	8	....	....	....	....
141A. Abortion	F	8	....	1	....	....	....	....	....	7	....	....	....	....
141B. Self-induced abortion	F	1	....	....	....	....	....	....	....	1	....	....	....	....
142. Ectopic gestation	F	11	....	....	1	....	....	....	3	7	....	....	....	....
142A. With septic conditions	F	3	....	....	1	....	....	....	....	2	....	....	....	....
142B. Without mention of septic conditions	F	8	....	....	....	....	....	....	3	5	....	....	....	....
143. Other accidents of pregnancy (haemorrhage excluded)	F	3	....	....	....	....	....	....	1	1	1	....	....	....
144. Puerperal haemorrhage	F	22	....	1	....	....	....	....	2	19	....	....	....	....
144A. Placenta praevia	F	10	....	....	....	....	....	....	1	9	....	....	....	....
144B. Other haemorrhages	F	12	....	1	....	....	....	....	1	10	....	....	....	....
145. Puerperal septicaemia (not specified as due to abortion)	F	50	....	2	....	....	....	....	15	33	....	....	....	....
145A. Puerperal septicaemia and pyaemia	F	50	....	2	....	....	....	....	15	33	....	....	....	....
146. Puerperal albuminuria and eclampsia	F	45	....	4	1	....	....	....	10	30	....	....	....	....
147. Other toxaemias of pregnancy	F	9	....	....	....	....	....	....	2	7	....	....	....	....
148. Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)	F	41	....	1	1	....	....	....	5	34	....	....	....	....
148A. Phlegmasia alba dolens and thrombosis	F	13	....	....	....	....	....	....	1	12	....	....	....	....
148B. Embolism	F	18	....	1	1	....	....	....	3	13	....	....	....	....
148C. Sudden death	F	10	....	....	....	....	....	....	1	9	....	....	....	....
149. Other accidents of childbirth	F	35	....	....	3	....	....	....	6	25	....	....	....	1
149A. Caesarean operation	F	6	....	....	....	....	....	....	3	3	....	....	....	....
149B. Other surgical operations and instrumental delivery	F	6	....	....	1	....	....	....	1	4	....	....	....	....
149C. Dystocia	F	14	....	....	....	....	....	....	1	12	....	....	....	1
149E. Others under this title	F	9	....	....	2	....	....	....	1	6	....	....	....	....
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE														
Total	...	76	13	7	3	4	2	....	....	6	10	13	....	18
	M	40	4	4	1	4	2	....	....	4	4	11	....	6
	F	36	9	3	2	....	....	....	....	2	6	2	....	12
151. Carbuncle	M	16	....	3	....	2	2	....	....	2	2	4	....	1
	F	11	2	1	1	....	....	....	....	1	....	....	....	6
152. Cellulitis, acute abscess	M	9	....	1	1	1	....	....	....	2	1	2	....	1
	F	13	3	1	....	....	....	....	....	1	4	1	....	3
153. Other diseases of the skin and annexa and of the cellular tissue	M	15	4	....	....	1	....	....	....	....	1	5	....	4
	F	12	4	1	1	....	....	....	....	....	2	1	....	3

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

	NATIVITY					MONTHS												
			Foreign															
Not stated	Canada	British	USA	Other	Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
....	20	1	1	3	....	6	2	3	....	1	1	2	2	4	1	3	....	139A
....	30	11	....	1	....	7	2	6	5	1	2	2	5	4	5	2	1	139B
....	2	....	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	139C
....	204	30	4	12	1	23	20	20	23	22	17	17	30	21	21	20	17	
....	16	6	....	3	1	2	1	2	2	2	1	3	3	1	....	6	3	140
....	8	....	....	3	1	1	....	....	1	1	1	2	1	....	....	3	2	140A
....	8	6	....	....	....	1	1	2	1	1	....	1	2	1	....	3	1	140B
....	8	1	....	....	....	1	1	1	1	....	1	....	....	3	....	1	....	141
....	8	....	....	....	....	1	1	1	1	....	....	....	....	3	....	1	....	141A
....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	141B
....	9	1	....	1	....	....	2	3	2	....	....	2	1	....	....	....	1	142
....	2	1	....	....	....	....	....	1	....	....	....	1	1	....	....	....	....	142A
....	7	....	....	1	....	....	2	2	2	....	....	1	....	....	....	....	1	142B
....	2	1	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....	143
....	21	1	....	....	....	2	3	1	2	3	1	2	4	....	....	4	....	144
....	10	....	....	....	....	....	2	1	2	1	1	....	2	....	....	1	....	144A
....	11	1	....	....	....	2	1	....	....	2	....	2	2	....	....	3	....	144B
....	37	7	2	4	....	6	2	3	5	4	4	1	6	6	7	2	4	145
....	37	7	2	4	....	6	2	3	5	4	4	1	6	6	7	2	4	145A
....	40	3	1	1	....	6	3	6	2	4	4	2	5	4	4	2	3	146
....	8	1	....	....	....	2	1	....	1	1	....	....	1	1	2	....	....	147
....	37	3	....	1	....	2	4	1	6	5	2	4	5	3	3	1	5	148
....	12	1	....	....	....	....	2	....	2	2	1	....	2	....	1	....	3	148A
....	16	2	....	....	....	2	2	1	2	2	....	3	1	2	1	1	1	148B
....	9	....	....	1	....	....	....	....	2	1	1	1	2	1	1	....	1	148C
....	26	6	1	2	....	1	3	2	2	3	4	2	5	3	5	4	1	149
....	5	1	....	....	....	....	1	....	1	....	2	....	....	1	1	....	....	149A
....	5	1	....	....	....	....	....	1	....	1	....	....	2	1	....	1	....	149B
....	10	2	1	1	....	1	1	....	1	2	....	2	2	....	2	2	1	149C
....	6	2	....	1	....	....	1	1	....	....	2	....	1	1	2	1	....	149E
....	62	6	2	6	....	7	9	8	8	6	1	9	8	14	3	1	2	
....	34	3	1	2	....	2	4	5	4	4	....	6	4	7	3	1	....	
....	28	3	1	4	....	5	5	3	4	2	1	3	4	7	....	....	2	
....	13	2	....	1	....	1	....	1	1	3	....	3	3	2	1	1	....	151
....	9	1	....	1	....	1	3	....	1	1	....	2	2	1	....	....	....	
....	7	1	1	....	....	....	2	....	1	1	....	2	....	3	....	....	....	152
....	9	1	1	2	....	2	1	1	2	....	1	1	1	3	....	....	1	
....	14	....	....	1	....	1	2	4	2	....	....	1	1	2	2	....	....	153
....	10	1	....	1	....	2	1	2	1	1	....	....	1	3	....	....	1	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION														
Total	...	108	34	12	6	1	2	.....	.....	10	14	11	.....	18
	M	67	25	11	3	1	.....	.....	.....	4	7	7	.....	9
	F	41	9	1	3	.....	2	.....	.....	6	7	4	.....	9
154. Osteomyelitis	M	37	14	8	2	.....	.....	.....	.....	3	3	2	.....	5
	F	15	7	1	.....	.....	.....	.....	.....	1	3	1	.....	2
155. Other diseases of the bones (tuberculosis excepted)	M	9	3	.....	.....	.....	.....	.....	.....	.....	2	2	.....	2
	F	14	.....	.....	3	.....	1	.....	.....	.....	.....	3	.....	7
156. Diseases of the joints and other organs of locomotion	M	21	8	3	1	1	.....	.....	.....	1	2	3	.....	2
	F	12	2	.....	.....	.....	1	.....	.....	5	4	.....	.....	.....
56A. Of the joints (tuberculosis and rheumatism excepted)	M	11	5	1	.....	1	.....	.....	.....	1	.....	2	.....	1
	F	4	1	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....
156B. Of other organs of locomotion	M	10	3	2	1	.....	.....	.....	.....	.....	2	1	.....	1
	F	8	1	.....	.....	.....	1	.....	.....	3	3	.....	.....	.....
CLASS XIV.—CONGENITAL MALFORMATIONS														
Total	...	499	486	8	3	1	.....	.....	.....	.....	1	.....	.....	.....
	M	249	243	4	1	1	.....	.....	.....	.....	.....	.....	.....	.....
	F	250	243	4	2	.....	.....	.....	.....	.....	1	.....	.....	.....
157. Congenital malformations (stillbirths excluded)	M	249	243	4	1	1	.....	.....	.....	.....	.....	.....	.....	.....
	F	250	243	4	2	.....	.....	.....	.....	.....	1	.....	.....	.....
157A. Congenital hydrocephalus	M	30	29	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	24	23	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
157B. Spina bifida and meningocele	M	63	62	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	60	59	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
157C. Congenital malformations of the heart	M	93	90	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	98	96	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
157D. Monstrosities	M	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	6	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
157E. Others under this title	M	60	59	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	F	62	59	1	1	.....	.....	.....	.....	.....	1	.....	.....	.....
CLASS XV.—DISEASES OF EARLY INFANCY														
Total	...	1625	1625	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	M	955	955	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	670	670	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
158. Congenital debility	M	65	65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	46	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
159. Premature birth	M	582	582	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	428	428	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
160. Injury at birth	M	187	187	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	102	102	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
160A. With mention of caesarean operation	M	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
160B. Without mention of sarean operation	M	183	183	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	102	102	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

	NATIVITY					MONTHS												
			Foreign															
Not stated	Canada	British	USA	Other	Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
....	87	10	4	7	....	13	13	9	6	6	10	6	9	9	11	6	10	
....	56	5	1	5	....	9	6	7	3	3	7	5	5	7	5	5	5	
....	31	5	3	2	....	4	7	2	3	3	3	1	4	2	6	1	5	
....	30	2	1	4	....	2	4	3	.....	1	5	2	4	5	3	3	5	154
....	11	2	1	1	....	1	7	1	.....	.....	1	.....	1	2	2	.....	.....	
....	8	1	.....	.....	....	3	.....	1	.....	.....	1	2	.....	1	.....	1	.....	155
....	10	3	1	.....	....	3	.....	1	1	1	2	.....	1	.....	3	.....	2	
....	18	2	.....	1	....	4	2	3	3	2	1	1	1	1	2	1	.....	156
....	10	.....	1	1	....	.....	.....	.....	2	2	.....	1	2	.....	1	1	3	
....	9	1	.....	1	....	2	.....	1	2	2	.....	1	1	1	.....	1	.....	156A
....	3	.....	.....	1	....	.....	.....	.....	1	1	.....	.....	2	.....	.....	.....	.....	
....	9	1	.....	.....	....	2	2	2	1	.....	1	.....	.....	.....	2	.....	.....	156B
....	7	.....	1	.....	....	.....	.....	.....	1	1	.....	1	.....	.....	1	1	3	
....	496	2	.....	1	....	42	40	52	39	38	38	41	49	37	34	47	42	
....	248	.....	.....	1	....	19	25	26	16	26	17	21	25	15	19	23	17	
....	248	2	.....	.....	....	23	15	26	23	12	21	20	24	22	15	24	25	
....	248	.....	.....	1	....	19	25	26	16	26	17	21	25	15	19	23	17	157
....	248	2	.....	.....	....	23	15	26	23	12	21	20	24	22	15	24	25	
....	30	.....	.....	.....	....	3	1	4	1	2	2	4	4	1	4	3	1	157A
....	24	.....	.....	.....	....	2	1	1	2	.....	3	4	1	3	3	.....	4	
....	63	.....	.....	.....	....	5	5	5	2	9	5	7	2	6	3	9	5	157B
....	60	.....	.....	.....	....	3	5	7	6	1	7	3	4	4	4	11	5	
....	92	.....	.....	1	....	8	15	8	4	11	4	6	11	3	8	8	7	157C
....	97	1	.....	.....	....	10	6	9	12	6	5	9	11	12	6	4	8	
....	3	.....	.....	.....	....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2	157D
....	6	.....	.....	.....	....	.....	.....	1	.....	1	.....	1	1	.....	.....	1	1	
....	60	.....	.....	.....	....	3	4	8	9	4	6	4	8	5	4	3	2	157E
....	61	1	.....	.....	....	8	3	8	3	4	6	3	7	3	2	8	7	
....	1624	.....	.....	.....	1	129	125	153	151	144	141	122	125	146	146	116	127	
....	955	.....	.....	.....	....	77	83	77	90	90	83	69	69	80	89	74	74	
....	669	.....	.....	.....	1	52	42	76	61	54	58	53	56	66	57	42	53	
....	65	.....	.....	.....	....	3	8	6	4	7	3	8	4	4	6	8	4	158
....	46	.....	.....	.....	....	2	2	4	5	4	4	3	3	3	10	3	3	
....	582	.....	.....	.....	....	40	55	45	55	53	55	46	39	58	48	42	46	159
....	428	.....	.....	.....	....	34	25	49	36	35	40	34	38	45	29	28	35	
....	187	.....	.....	.....	....	20	11	16	10	19	18	9	20	11	23	14	16	160
....	101	.....	.....	.....	1	7	7	11	9	9	7	6	11	12	9	2	12	
....	4	.....	.....	.....	....	.....	.....	.....	.....	1	2	.....	.....	.....	1	.....	.....	160A
....	183	.....	.....	.....	....	20	11	16	10	18	16	9	20	11	22	14	16	160B
....	101	.....	.....	.....	1	7	7	11	9	9	7	6	11	12	9	2	12	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Under 15	Single					Married					Widowed
				15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	
161. Other diseases peculiar to early infancy (under 3 months)	M	121	121	....	....	....	....	....	....	....	....	....	....	....
	F	94	94	....	....	....	....	....	....	....	....	....	....	....
161A. Atelectasis	M	42	42	....	....	....	....	....	....	....	....	....	....	....
	F	31	31	....	....	....	....	....	....	....	....	....	....	....
161B. Icterus of the new-born	M	14	14	....	....	....	....	....	....	....	....	....	....	....
	F	18	18	....	....	....	....	....	....	....	....	....	....	....
161C. Sclerema and oedema	M	1	1	....	....	....	....	....	....	....	....	....	....	....
	F	1	1	....	....	....	....	....	....	....	....	....	....	....
161D. Athrepsia	M	6	6	....	....	....	....	....	....	....	....	....	....	....
	F	2	2	....	....	....	....	....	....	....	....	....	....	....
161E. Others, including lack of care	M	55	55	....	....	....	....	....	....	....	....	....	....	....
	F	40	40	....	....	....	....	....	....	....	....	....	....	....
161F. No cause given, no doctor in attendance	M	3	3	....	....	....	....	....	....	....	....	....	....	....
	F	2	2	....	....	....	....	....	....	....	....	....	....	....
CLASS XVI.—SENILITY														
Total	...	475	....	....	....	....	87	....	....	....	....	105	....	282
	M	190	....	....	....	....	32	....	....	....	....	70	....	87
	F	285	....	....	....	....	55	....	....	....	....	35	....	195
162. Senility	M	190	....	....	....	....	32	....	....	....	....	70	....	87
	F	285	....	....	....	....	55	....	....	....	....	35	....	195
162A. With senile dementia (70 years and over)	M	90	....	....	....	....	15	....	....	....	....	45	....	29
	F	116	....	....	....	....	24	....	....	....	....	24	....	68
162B. Without senile dementia (70 years and over)	M	100	....	....	....	....	17	....	....	....	....	25	....	58
	F	169	....	....	....	....	31	....	....	....	....	11	....	127
CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS														
Total	...	2754	398	254	231	117	135	1	34	361	414	264	3	515
	M	1904	275	216	202	95	58	1	21	291	323	185	3	208
	F	850	123	38	29	22	77	....	13	70	91	79	....	307
163-171. Suicides	M	274	....	24	42	22	4	....	1	51	83	18	....	26
	F	86	....	8	8	7	3	....	....	31	18	3	....	8
163. Suicide by solid or liquid poisons or by absorption of corrosive substances	M	39	....	1	7	2	1	....	....	15	8	1	....	3
	F	32	....	2	6	....	....	....	....	15	7	2	....	....
164. Suicide by poisonous gas	M	28	....	4	1	....	....	....	....	6	10	1	....	6
	F	13	....	2	1	1	....	....	....	4	2	....	....	3
165. Suicide by hanging or strangulation	M	72	....	3	14	6	1	....	1	13	21	6	....	6
	F	9	....	....	....	1	1	....	....	4	3	....	....	....
166. Suicide by drowning	M	31	....	1	5	5	....	....	....	5	10	2	....	2
	F	15	....	1	1	2	1	....	....	3	3	1	....	3
167. Suicide by firearms	M	62	....	13	4	3	1	....	....	8	24	4	....	5
	F	2	....	....	....	1	....	....	....	....	1	....	....	....
168. Suicide by cutting or piercing instruments	M	20	....	1	2	3	....	....	....	1	6	3	....	4
	F	1	....	....	....	....	....	....	....	1	....	....	....	....
169. Suicide by jumping from high places	M	17	....	1	7	2	1	....	....	2	3	1	....	....
	F	9	....	2	....	1	1	....	....	3	....	....	....	2
170. Suicide by crushing	M	4	....	....	1	1	....	....	....	1	1	....	....	....
	F	1	....	1	....	....	....	....	....	....	....	....	....	....
171. Suicide by other means	M	1	....	....	1	....	....	....	....	....	....	....	....	....
	F	4	....	....	....	1	....	....	....	1	2	....	....	....

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

	NATIVITY					MONTHS												
			Foreign															
Not stated	Canada	British	USA	Other	Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
....	121	.....	.....	.....	....	14	9	10	21	11	7	6	6	7	12	10	8	161
....	94	.....	.....	.....	....	9	8	12	11	6	7	10	4	6	9	9	3	
....	42	.....	.....	.....	....	3	2	4	8	.....	3	3	3	4	5	4	3	161A
....	31	.....	.....	.....	....	3	1	6	4	1	2	2	4	1	2	5	.....	
....	14	.....	.....	.....	....	1	.....	1	3	1	1	1	.....	1	1	3	1	161B
....	18	.....	.....	.....	....	.....	3	3	4	.....	1	2	.....	.....	4	1	.....	
....	1	.....	.....	.....	....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	161C
....	1	.....	.....	.....	....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
....	6	.....	.....	.....	....	.....	.....	.....	1	2	.....	1	.....	1	1	.....	.....	161D
....	2	.....	.....	.....	....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	
....	55	.....	.....	.....	....	7	7	5	9	·8	2	1	3	1	5	3	4	161E
....	40	.....	.....	.....	....	5	3	3	3	4	4	6	.....	4	3	3	2	
....	3	.....	.....	.....	....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	161F
....	2	.....	.....	.....	....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	
1	343	101	14	15	2	40	52	40	36	42	34	35	30	44	34	36	52	
1	137	40	5	8	....	17	21	18	11	21	11	12	9	21	13	17	19	
....	206	61	9	7	2	23	31	22	25	21	23	23	21	23	21	19	33	
1	137	40	5	8	....	17	21	18	11	21	11	12	9	21	13	17	19	162
....	206	61	9	7	2	23	31	22	25	21	23	23	21	23	21	19	33	
1	67	17	2	4	....	5	7	10	7	12	5	5	5	11	7	7	9	162A
....	85	24	2	3	2	8	7	9	10	9	10	12	10	12	10	4	15	
....	70	23	3	4	....	12	14	8	4	9	6	7	4	10	6	10	10	162B
....	121	37	7	4	....	15	24	13	15	12	13	11	11	11	11	15	18	
27	1996	361	103	263	31	198	225	202	223	218	252	276	299	210	248	196	207	
26	1327	247	75	226	29	127	152	125	165	148	184	204	205	156	167	139	132	
1	669	114	28	37	2	71	73	77	58	70	68	72	94	54	81	57	75	
3	165	44	10	52	3	22	25	22	26	27	25	22	24	22	20	19	20	163–171
....	57	17	4	8	....	7	5	10	9	7	6	7	11	4	5	10	5	
1	22	9	3	4	1	5	2	1	3	1	5	2	5	5	4	1	5	163
....	19	9	1	3	....	5	2	4	1	3	1	2	6	.....	4	4	.....	
....	19	6	.....	3	....	1	1	1	4	3	1	2	3	2	6	2	2	164
....	7	4	1	1	....	1	.....	2	3	1	.....	2	2	.....	.....	2	.....	
1	38	8	.....	24	2	10	8	8	7	8	9	4	4	5	.....	2	7	165
....	6	2	.....	1	....	1	.....	1	2	.....	1	.....	.....	2	.....	1	1	
1	17	7	3	4	....	.....	3	.....	2	4	2	4	7	4	2	2	1	166
....	12	2	.....	1	....	.....	1	1	1	1	3	1	1	1	1	3	1	
....	43	4	4	11	....	3	6	8	2	9	5	6	4	5	7	3	4	167
....	1	.....	.....	1	....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	
....	14	3	.....	3	....	2	1	2	5	1	.....	2	1	1	.....	4	1	168
....	.....	.....	.....	1	....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	
....	9	7	.....	1	....	1	4	1	2	1	2	2	.....	.....	1	3	.....	169
....	8	.....	1	.....	....	.....	2	2	.....	1	.....	.....	1	1	.....	.....	2	
....	3	.....	.....	1	....	.....	.....	1	1	.....	1	.....	.....	.....	.....	1	.....	170
....	1	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	
....	.....	.....	.....	1	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	171
....	3	.....	1	.....	....	.....	.....	.....	1	1	.....	2	.....	.....	.....	.....	.....	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Single						Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
173–175. Homicides	M	32	7	.....	4	4	.....	.....	1	6	6	2	.....	2
	F	12	2	1	3	.....	.....	.....	.....	3	2	.....	.....	1
173. Homicide by firearms	M	10	.....	.....	3	.....	.....	.....	.....	3	3	1	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
174. Homicide by cutting or piercing instruments	M	2	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....
175. Homicide by other means	M	20	7	.....	1	3	.....	.....	1	2	3	1	.....	2
	F	11	2	1	3	.....	.....	.....	.....	3	2	.....	.....	.....
176-193. Other violent deaths	M	1598	268	192	156	69	54	1	19	234	234	165	3	180
	F	752	121	29	18	15	74	.....	13	36	71	76	.....	298
176. Attack by venomous animals	M	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
177. Food poisoning	M	2	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
	F	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
178. Accidental absorption of toxic gases	M	17	.....	1	2	1	1	.....	.....	3	3	2	.....	4
	F	6	2	.....	.....	2	.....	.....	1	1	.....	.....	.....	.....
179. Other acute accidental poisonings (except by gas)	M	20	9	.....	3	2	1	.....	.....	1	1	.....	.....	2
	F	9	4	.....	1	1	1	.....	.....	1	1	.....	.....	.....
180. Conflagration	M	37	14	3	6	1	2	.....	1	4	5	1	.....	.....
	F	24	12	.....	2	.....	2	.....	2	2	1	1	.....	2
181. Accidental burns (conflagration excepted)	M	49	22	2	3	1	.....	.....	.....	8	5	3	.....	4
	F	58	15	2	2	2	6	.....	2	5	7	3	.....	14
182. Accidental mechanical suffocation	M	48	34	3	2	1	.....	.....	.....	2	1	3	.....	1
	F	14	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
183. Accidental drowning	M	250	82	57	31	5	.....	.....	3	37	18	7	2	4
	F	37	19	7	3	.....	.....	.....	1	2	2	.....	.....	3
184. Accidental injury by firearms	M	33	2	8	4	1	.....	.....	1	9	4	.....	.....	4
	F	5	2	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....
185. Accidental injury by cutting or piercing instruments	M	15	4	2	2	.....	.....	.....	.....	1	4	2	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
186. Accidental injury by fall, crushing or landslide	M	973	80	102	90	48	46	.....	13	145	177	127	1	137
	F	550	50	19	8	10	58	.....	5	20	57	61	.....	262
188. Injuries by animals	M	32	1	2	.....	4	3	.....	.....	2	5	9	.....	5
190. Excessive cold	M	9	2	.....	2	1	1	.....	.....	1	.....	1	.....	1
	F	3	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	2
191. Excessive heat	M	18	4	.....	.....	1	.....	.....	.....	2	1	3	.....	7
	F	16	.....	1	1	.....	3	.....	.....	1	.....	5	.....	5
192. Lightning	M	4	.....	1	1	.....	.....	.....	.....	1	.....	1	.....	.....
	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
193. Accidents due to electric currents	M	20	3	4	3	.....	.....	.....	.....	5	3	2	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
194. Other accidents	M	51	10	6	5	2	.....	1	1	11	6	3	.....	6
	F	18	.....	.....	.....	.....	2	.....	.....	1	.....	6	.....	9
194A. Foreign body	M	6	4	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....
194B. Others under this title	M	45	6	6	4	2	.....	1	1	11	5	3	.....	6
	F	18	.....	.....	.....	.....	2	.....	.....	1	.....	6	.....	9
195. Violent deaths of which the nature (accident, suicide, homicide) is unknown	M	16	.....	1	2	.....	.....	.....	.....	1	.....	.....	.....	4
	F	7	.....	.....	1	.....	1	.....	1	1	2	.....	.....	.....
198. Capital punishment	M	3	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1
CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH														
Total	...	62	20	3	.....	.....	5	.....	.....	4	10	10	.....	8
	M	33	9	2	.....	.....	4	.....	.....	2	7	6	.....	1
	F	29	11	1	.....	.....	1	.....	.....	2	3	4	.....	7
199. Sudden death	M	20	1	1	.....	.....	3	.....	.....	2	6	5	.....	.....
	F	11	.....	.....	.....	.....	1	.....	.....	1	1	1	.....	7

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

	NATIVITY					MONTHS												
			Foreign															
Not stated	Canada	British	USA	Other	Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
....	19	3	1	7	2	....	3	5	5	3	4	1	2	3	3	2	1	173–175
....	7	3	....	1	1	3	1	1	....	....	....	5	....	1	1	....	....	
....	4	2	1	3	....	....	2	....	2	1	1	1	....	1	1	....	1	173
....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	
....	....	....	....	2	....	....	....	....	1	....	1	....	....	....	....	....	....	174
....	15	1	....	2	2	....	1	5	2	2	2	....	2	2	2	2	....	175
....	6	3	....	1	1	3	1	1	....	....	....	4	....	1	1	....	....	
23	1143	200	64	167	24	105	124	98	134	118	155	181	179	131	144	118	111	176–198
1	605	94	24	28	1	61	67	66	49	63	62	60	83	49	75	47	70	
....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	176
....	2	....	....	....	..	....	1	....	....	....	....	....	1	....	....	....	....	177
....	2	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	
....	11	2	2	2	....	3	2	1	2	....	1	2	....	2	3	....	1	178
....	6	....	....	....	....	....	1	2	....	....	....	....	....	1	....	....	2	
1	15	3	....	1	1	4	....	2	1	2	3	1	2	1	2	1	1	179
....	7	1	....	1	....	....	....	....	1	2	1	1	2	....	....	1	1	
....	28	3	3	2	1	4	3	1	2	1	3	....	2	1	13	2	5	180
....	21	1	2	....	....	1	2	2	1	2	1	....	....	....	11	....	4	
1	39	5	1	3	1	3	12	4	3	2	1	4	4	4	9	2	1	181
....	51	4	....	3	....	4	5	10	4	4	5	2	2	4	3	8	7	
1	43	1	....	3	1	3	6	6	5	3	4	1	3	3	6	3	5	182
....	14	....	....	....	....	1	2	2	3	1	1	1	1	....	1	....	1	
4	197	17	17	15	4	7	9	8	20	36	36	55	42	15	9	7	6	183
....	34	3	....	....	....	1	1	....	1	3	7	10	7	....	5	2	....	
....	29	1	1	2	....	3	1	....	3	2	1	1	3	3	7	6	3	184
....	4	....	....	1	....	....	....	1	....	....	....	....	....	1	1	2	....	
....	12	1	....	2	....	3	....	....	3	2	2	....	4	....	....	1	....	185
....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	
7	652	159	34	119	9	61	86	74	78	63	87	92	91	86	85	90	80	186
....	428	81	22	19	....	51	53	45	38	48	41	38	59	41	52	32	52	
1	27	3	1	1	....	4	1	....	5	2	3	2	5	4	3	1	2	188
....	9	....	....	....	....	3	2	....	1	1	....	....	....	....	....	....	2	190
....	3	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	
....	15	2	1	....	....	....	....	....	....	....	1	8	9	....	....	....	....	191
....	13	2	....	1	....	....	....	....	....	....	2	6	8	....	....	....	....	
....	3	....	....	1	....	....	....	....	....	....	1	2	....	1	....	....	....	192
....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	
....	19	....	....	1	....	....	....	....	2	1	3	5	5	1	3	....	....	193
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	
....	34	2	3	11	1	5	1	2	6	2	6	4	6	9	3	2	5	194
....	17	1	....	....	....	1	2	2	....	3	2	1	1	2	....	2	2	
....	6	....	....	....	....	1	....	....	....	....	....	1	1	1	1	1	....	194A
....	28	2	3	11	1	4	1	2	6	2	6	3	5	8	2	1	5	194B
....	17	1	....	....	....	1	2	2	....	3	2	1	1	2	....	2	2	
8	5	1	1	3	6	....	....	....	3	1	1	4	2	1	1	3	....	195
1	3	1	....	2	1	....	....	1	....	....	2	....	2	....	1	....	1	
....	2	....	....	1	....	2	....	....	....	....	1	....	....	....	....	....	....	198
2	52	5	1	3	1	6	8	2	9	4	1	6	4	6	7	5	4	
2	27	3	1	1	1	4	3	2	5	1	1	3	2	1	4	4	3	
....	25	2	....	2	....	2	5	....	4	3	....	3	2	5	3	1	1	
2	14	3	1	1	1	3	2	....	2	....	1	2	1	1	3	3	2	199
....	7	2	....	2	....	....	3	....	1	1	....	1	1	2	....	1	1	

TABLE 38—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
				Single					Married					
			Under 15	15–24	25–44	45–64	65 and over	Age not stated	15–24	25–44	45–64	65 and over	Age not stated	Widowed
200. Cause of death not specified or ill-defined...	M	13	8	1	.....	.....	1	.....	.....	.....	1	1	.....	1
	F	18	11	1	.....	.....	.....	.....	.....	1	2	3	.....	.....

SPECIAL CLASSES OF

(Included also under the numbers

ONTARIO,

A. Accidents in mines and quarries............	M	54	1	5	13	.....	.....	.....	1	31	3	.....	.....	.....
B. Accidents caused by machines................	M	45	1	5	6	5	.....	.....	1	11	12	2	.....	2
	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
C. Railway accidents........	M	64	2	7	4	4	1	.....	1	13	18	3	.....	10
	F	3	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
D. Street-car accidents......	M	9	1	1	.....	1	1	.....	.....	1	2	2	.....	.....
	F	3	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	1
E. Automobile and motorcycle accidents.......	M	500	62	77	55	18	14	.....	10	80	90	53	.....	36
	F	177	45	19	5	6	2	.....	6	20	39	5	.....	30
F. Other land transportation	M	34	8	2	2	2	2	.....	.....	3	8	5	.....	2
	F	5	3	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
G. Water transportation.....	M	83	19	14	18	.....	.....	.....	1	24	4	1	.....	2
	F	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
H. Air transportation.......	M	8	1	2	1	.....	.....	.....	.....	3	1	.....	.....	.....

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1938—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
....	13	.....	.....	.....	....	1	1	2	3	1	.....	1	1	.....	1	1	1	200
....	18	.....	.....	.....	....	2	2	.....	3	2	.....	2	1	3	3	.....	.....	

ACCIDENTAL DEATHS

of the International List above)

1938

....	19	3	3	29	....	3	7	8	3	4	5	3	3	6	2	3	7	A
....	29	10	.....	6	....	7	3	3	5	4	5	4	3	6	1	3	1	B
....	1	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	
1	39	9	.....	14	2	4	4	7	6	8	6	10	5	2	5	3	4	C
....	3	.....	.....	.....	....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	1	
....	4	3	.....	2	....	4	1	.....	.....	1	.....	1	.....	1	1..	.....	.....	D
....	1	1	.....	1	....	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	
5	353	68	26	48	5	27	32	34	35	24	45	46	61	50	56	48	42	E
....	133	22	13	9	....	10	8	9	10	11	20	15	19	23	24	9	19	
....	27	4	.....	3	....	.....	1	4	2	3	2	5	5	3	5	3	1	F
....	4	.....	1	.....	....	.....	1	.....	1	1	.....	.....	.....	1	.....	1	.....	
....	61	10	6	6	....	.....	.....	.....	15	19	10	13	11	7	5	3	.....	G
....	2	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	
....	4	1	3	.....	....	1	.....	.....	.....	1	1	3	1	1	.....	.....	.....	H

TABLE 39—CAUSES OF DEATH BY COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora; incl. Patricia	Kent	Lambton
Total	15,714	63	218	256	481	242	337	187	154	308	285	343	222	204	201	477	204	55	225	355	530	149	407	384
CLASS I.—INFECTIOUS AND PARASITIC DISEASES																								
Total	1321	5	19	29	24	9	44	12	8	22	13	12	13	29	11	35	10	2	11	13	23	27	15	14
1. Typhoid fever	16	..	..	..	..	..	2	..	..	..	..	1	..	..	..	..	..	..	1	1	1	..	..	1
5. Undulant fever	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Measles	10	..	1	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..
8. Scarlet fever	21	..	..	..	1	..	3	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	2	1
9. Whooping-cough	43	..	..	..	3	..	1	..	..	..	1	1	..	..	..	2	1	..	1	..	..	1	2	..
10. Diphtheria	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Influenza	367	2	3	1	11	5	3	10	4	12	8	7	7	3	3	25	1	2	5	8	12	3	4	3
11A. Sole cause	29	..	..	..	..	..	..	..	..	..	..	1	..	..	..	3	..	..	1	..	1	2	..	..
11B. With bronchitis	18	1	..	..	..	1	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
11C. With pneumonia	166	..	1	..	6	1	1	8	2	5	7	3	2	2	2	11	..	2	2	4	6	1	2	1
11D. With other diseases of the respiratory system	26	..	1	..	1	2	..	1	1	2	1	..	1	..	..	2	..	..	1	1	1	..	..	..
11E. With intestinal complications	35	..	..	..	2	..	1	..	..	1	..	2	1	1	..	3	..	..	..	2	1	..	..	..
11F. With other causes	93	1	1	1	2	1	1	1	1	4	..	..	3	..	1	5	1	..	1	1	3	..	2	2
13. Dysentery	20	1	1	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
15. Erysipelas	10	..	..	..	..	..	..	1	..	1	..	..	1	1	..	..	..	..	..	..	..	..	1	..
16. Poliomyelitis and polioencephalitis (acute)	6	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..
17. Lethargic or epidemic encephalitis	4	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..
18. Epidemic cerebrospinal meningitis	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
22. Tetanus	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
23–32. Tuberculosis	742	2	13	25	9	3	28	..	1	8	4	...	4	24	7	7	6	..	3	3	8	19	3	7
23. Tuberculosis of the respiratory system	680	2	11	24	7	3	21	..	1	6	4	...	3	23	6	5	4	..	3	3	6	18	2	6
24. Tuberculosis of the meninges and central nervous system	21	..	2	1	2	..	5	..	..	1	..	..	..	..	..	1	1	..	..	..	..	1	..	..
25. Tuberculosis of the intestines and peritoneum	10	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
26. Tuberculosis of the vertebral column	14	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..	..	..	..	..	..	..
27. Tuberculosis of the bones and joints (vertebral column excepted)	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
27B. Of joints	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
29. Tuberculosis of the lymphatic system (bronchial, mesenteric and retroperitoneal glands excepted)	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
30. Tuberculosis of the genito-urinary system	6	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..
32. Disseminated tuberculosis	9	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32A. Acute	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32C. Not specified	6	..	..	..	..	..	..	..	..	1														
34. Syphilis	52	..	1	2	..	1	4	1	2	..	..	1	..	..	..	..	1	..	..	..	..	1	..	2
35. Gonococcus infection and other venereal diseases	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Purulent infection, septicaemia (non-puerperal)	7	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
38. Malaria	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Other diseases due to protozoal parasites	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
43. Mycoses	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
44. Other infectious or parasitic diseases	4	..	..	..	..	..	1	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
44C. Others under this title	4	..	..	..	..	..	1	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..
CLASS II.—CANCER AND OTHER TUMOURS																								
Total	1719	8	19	27	62	36	21	16	18	29	28	44	27	21	28	61	26	6	31	45	68	12	49	32

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Timiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
267	292	108	269	136	509	278	238	264	262	270	336	238	170	306	183	174	233	108	263	139	553	176	344	119	243	171	267	229	479	511	1,292	
11	16	6	25	34	78	65	21	10	7	13	17	21	10	11	7	20	13	13	23	9	37	10	38	9	35	12	25	12	24	135	154	
...	...	..	..	..	1	..	..	...	1	...	2	..	..	...	..	..	...	1	...	..	1	..	..	..	2	..	1	...	...	...	...	1
...	...	..	..	..	...	..	..	...	...	...	1	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	5
...	...	..	..	..	...	..	1	1	...	...	1	..	..	...	..	..	...	..	...	..	2	..	..	..	1	..	...	...	...	...	...	7
...	...	..	1	1	...	..	2	...	1	...	...	..	..	...	..	1	...	..	1	1	...	..	3	..	1	..	...	...	...	...	...	8
...	...	..	..	..	...	3	4	...	...	...	1	1	1	...	..	..	...	..	3	..	4	..	6	..	..	1	...	4	...	1	1	9
...	...	..	..	..	...	..	1	...	...	...	...	..	..	...	..	..	...	1	...	..	...	..	..	..	..	..	...	...	...	...	...	10
5	11	1	6	19	3	1	3	5	1	6	8	17	5	8	4	8	6	7	8	2	10	4	4	..	7	10	3	4	15	10	24	11
...	1	..	..	4	...	..	1	...	...	...	...	4	..	...	..	1	...	5	...	..	...	..	..	..	..	1	...	...	...	2	2	11A
...	1	1	..	..	...	..	..	...	...	...	1	1	1	1	1	..	...	..	1	..	1	..	..	..	..	1	...	1	3	...	...	11B
2	5	..	6	1	1	1	..	1	...	4	3	9	4	3	3	4	3	..	4	1	4	3	2	..	3	7	...	1	4	7	11	11C
1	...	..	..	..	1	..	..	1	...	...	...	..	..	...	..	1	2	1	...	1	...	..	..	..	..	..	...	...	...	...	3	11D
...	2	..	..	3	1	..	1	1	...	...	...	1	..	2	..	..	1	1	1	..	2	1	..	..	2	..	...	...	1	...	1	11E
2	2	..	..	11	...	..	1	2	1	2	4	2	..	2	..	2	...	..	2	1	2	..	2	..	2	2	2	2	7	1	7	11F
...	...	..	..	1	...	..	1	...	...	...	...	..	1	...	..	..	1	1	3	..	4	..	1	..	..	..	...	...	2	...	...	13
...	...	..	..	..	...	..	..	...	...	1	...	..	1	1	..	..	1	..	...	..	...	..	1	..	..	..	...	...	...	...	...	15
...	...	..	..	..	...	..	..	1	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	1	..	..	...	...	...	1	...	16
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	1	..	...	..	...	..	1	..	..	..	...	...	...	...	...	17
...	...	..	..	..	...	..	1	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	2	1	..	..	...	...	...	...	...	18
...	...	..	..	..	...	..	1	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	22
6	2	3	17	13	68	60	7	2	4	6	4	3	2	2	3	11	1	3	6	6	13	5	15	8	21	1	21	2	5	118	120	23–32
6	1	2	14	13	65	60	5	2	2	5	1	2	2	2	2	11	1	3	6	6	10	5	12	5	21	1	20	2	4	118	113	23
...	...	1	..	..	...	..	1	...	...	...	...	..	..	...	..	..	...	..	...	..	2	..	..	3	..	..	...	...	...	...	...	24
...	1	..	1	..	1	..	..	...	...	...	1	1	..	...	..	..	...	..	...	..	...	..	2	..	..	..	...	...	...	...	...	25
...	...	..	1	..	1	..	1	...	...	1	1	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	1	...	1	...	4	26
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	27
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	27B
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	29
...	...	..	..	..	...	..	..	...	...	...	1	..	..	...	1	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	1	30
...	...	..	1	..	1	..	..	...	2	...	...	..	..	...	..	..	...	..	...	..	1	..	1	..	..	..	...	...	...	...	2	32
...	...	..	..	..	1	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	1	..	..	..	..	..	...	...	...	...	1	32A
...	...	..	1	..	...	..	..	...	2	...	...	..	..	...	..	..	...	..	...	..	...	..	..	1	..	..	...	...	...	...	1	32C
...	2	2	1	..	6	1	..	1	...	...	...	..	..	...	..	..	1	..	...	..	2	1	5	..	..	..	...	2	...	4	8	34
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	1	..	...	...	...	...	...	35
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	1	..	...	..	..	..	..	..	...	...	2	1	1	36
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	1	..	...	...	...	...	...	38
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	2	..	1	..	...	..	..	..	..	..	...	...	...	...	...	39
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	1	..	..	..	..	..	...	...	...	...	...	43
...	1	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	44
...	1	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	44C
35	27	15	35	3	57	29	20	32	31	21	40	21	25	39	19	12	28	3	30	12	48	8	13	5	21	29	31	23	71	41	181	.

TABLE 39—CAUSES OF DEATH BY COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton
45–53. Cancer and other malignant tumours	1630	7	19	25	62	33	19	16	16	29	28	39	26	20	28	58	25	6	29	44	60	11	47	29
45. Cancer of the buccal cavity and pharynx	62	..	1	1	2	1	..	..	..	...	1	1	1	1	3	1	3	1	2	2	1	..	2	2
46. Cancer of the digestive tract and peritoneum	850	5	12	14	36	15	11	8	9	12	16	22	12	8	12	28	15	3	15	24	39	4	21	13
46A. Of the oesophagus	21	..	1	..	...	...	..	..	1	1	...	...	...	1	..	...	1	..	1	1	2	..	...	..
46B. Of the stomach and duodenum	376	1	5	4	15	7	8	4	1	8	8	9	2	3	8	12	3	2	6	10	18	1	10	5
46C. Of the rectum	88	.	1	..	5	...	1	1	..	1	1	2	3	3	1	5	1	..	3	2	3	..	3	1
46D. Of the liver and biliary ducts	102	2	1	4	5	3	1	2	1	...	3	5	2	..	1	2	5	1	1	3	5	1	6	1
46E. Of the pancreas	43	.	1	1	2	1	..	..	..	...	...	2	...	..	1	3	...	..	1	...	3	..	...	..
46G. Of other organs	220	2	3	5	9	4	1	1	6	2	4	4	5	1	1	6	5	..	3	8	8	2	2	6
47. Cancer of the respiratory organs	50	..	..	..	2	1	1	2	..	1	...	2	...	..	..	...	1	..	...	1	...	..	...	2
47A. Of the larynx	7	..	..	..	1	1	..	1	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	1
47B. Of the lung	32	..	..	..	1	...	..	1	..	1	...	...	...	..	..	...	1	..	...	1	...	..	...	1
47C. Of the mediastinum	2	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	..
47D. Of other organs of the respiratory system	9	..	..	..	...	...	1	..	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	..
48. Cancer of the uterus	122	..	..	3	5	4	1	..	2	1	2	2	2	3	2	4	2	..	1	5	1	..	3	1
48A. Of the uterus	93	..	..	2	5	3	1	..	1	1	1	2	1	3	1	4	1	..	...	4	...	..	2	1
48B. Of the cervix uteri	29	..	..	1	...	1	..	..	1	...	1	...	1	..	1	...	1	..	1	1	1	..	1	..
49. Cancer of other female genital organs	36	..	..	1	...	2	..	..	1	1	2	1	...	1	..	1	1	..	1	1	...	1	1	1
50. Cancer of the breast	182	1	2	4	6	...	1	2	..	4	5	6	5	3	2	5	3	..	2	3	4	2	9	3
51. Cancer of the male genito-urinary organs	144	..	1	..	5	6	2	1	2	6	...	3	5	4	6	10	...	..	5	4	6	..	5	4
51A. Of the bladder	38	..	..	..	2	4	1	..	1	1	...	1	...	1	1	3	...	..	4	...	...	..	...	2
51B. Of the kidney	8	..	..	..	...	...	..	..	1	...	...	...	...	1	..	...	...	..	1	...	1	..	...	..
51C. Of the prostate gland	87	..	1	..	3	2	1	1	..	4	...	2	5	1	5	7	...	..	...	4	5	..	5	2
51D. Of the testicles and annexa	6	..	..	..	...	...	..	..	..	1	...	...	...	..	..	...	...	..	...	...	...	..	...	..
51E. Of other male genito-urinary organs	5	..	..	..	...	...	..	..	..	...	...	...	...	1	..	...	...	..	...	...	...	..	...	..
52. Cancer of the skin	47	..	1	..	...	...	..	1	1	2	2	1	...	..	..	3	...	1	...	...	4	1	1	2
53. Cancer of other or unspecified organs	137	1	2	2	6	4	3	2	1	2	...	1	1	..	3	6	...	1	3	4	5	3.	5	1
53A. Of the eye and orbit	3	..	..	..	...	...	1	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	..
53C. Of the glandular system	28	1	..	..	2	...	..	1	..	...	...	1	...	..	1	...	...	..	...	2	1	..	...	..
53D. Of the female urinary organs	20	..	1	..	1	2	1	1	..	...	...	...	...	..	..	2	...	..	1	1	1	1	...	..
53E. Of the bones and joints	21	..	1	1	...	...	..	..	..	1	...	...	...	..	..	1	...	..	1	1	...	1	...	..
53F. Of the brain	19	..	..	..	...	1	..	..	..	...	...	...	...	..	..	1	...	..	...	...	2	..	3	1
53G. Of the spine and spinal cord	9	..	..	..	1	1	1	..	1	...	...	...	...	..	..	1	...	..	...	...	...	..	...	..
53H. Of the neck	2	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	1	..	...	..
53I. Of the abdomen	9	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	1	...	...	1	1	..
53J. Of other specified organs	16	..	..	..	2	...	..	..	..	1	...	...	1	..	2	...	...	1	...	...	...	..	1	..
53K. Multiple cancer	5	..	..	..	...	...	..	..	..	...	...	...	...	..	..	1	...	..	...	...	...	..	...	..
53M. Of unspecified or unknown location	5	..	..	1	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	..
54. Non-malignant tumours	81	..	..	1	...	3	2	..	1	...	...	5	1	1	..	3	1	..	2	1	8	1	1	2
54A. Of the ovary	13	..	..	..	...	...	..	..	..	...	...	1	1	..	..	1	...	..	...	...	1	..	...	..
54B. Of the uterus	14	..	..	..	...	...	1	..	..	...	...	...	...	..	..	...	...	..	...	1	...	..	...	1
54D. Of the brain	11	..	..	..	...	...	..	..	..	...	...	1	...	..	..	...	...	..	1	...	...	1	...	..
54E. Of the thyroid gland	28	..	..	1	...	3	1	..	1	...	...	2	...	..	..	1	...	..	1	...	4	..	...	..
54F. Of the prostate gland	5	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	2	..	1	1
54G. Of other or unspecified sites	10	..	..	..	...	...	..	..	..	...	...	1	...	1	..	1	1	..	...	...	1	..	...	..
55. Tumours, nature not specified	8	1	..	1	...	...	..	..	1	...	...	...	...	..	..	...	...	..	...	...	...	..	1	1
55D. Of the brain	6	1	..	..	...	...	..	..	1	...	...	...	...	..	..	...	...	..	...	...	...	..	1	1
55G. Of other or unspecified sites	2	..	..	1	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	..
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES																								
Total	411	1	9	11	16	6	10	3	8	12	8	10	3	4	2	14	6	1	12	4	12	2	11	10
56. Acute rheumatic fever	58	.	1	1	1	...	3	..	1	1	1	2	...	..	..	2	...	..	2	1	...	..	2	2
57. Chronic rheumatism, osteoarthritis	26	..	..	2	...	...	..	..	..	...	...	...	...	2	..	1	1	..	1	...	3	..	...	..

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
34	26	13	34	3	54	29	19	32	30	20	36	19	23	34	18	11	28	3	29	12	47	6	13	5	19	29	30	22	63	37	176	45–53
2	1	...	2	...	1	1	...	...	...	2	1	2	...	1	...	1	1	...	...	1	4	...	...	...	3	...	2	...	3	4	4	45
20	10	5	20	...	27	16	13	16	18	11	23	8	10	20	10	4	12	...	22	6	28	1	6	2	6	15	15	14	26	15	97	46
...	1	...	...	...	2	1	...	1	1	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	2	46A
6	2	2	6	...	7	10	8	6	10	4	8	4	4	13	5	3	8	...	12	3	20	1	3	1	5	7	5	5	7	5	46	46B
...	2	1	5	...	4	1	2	...	1	...	3	...	3	2	2	...	...	...	4	...	...	...	1	1	...	1	2	2	2	4	8	46C
6	...	1	1	...	1	...	...	4	1	4	4	1	1	1	1	...	...	...	...	1	2	...	...	...	...	4	2	2	1	1	8	46D
3	...	1	1	...	2	...	...	1	1	...	5	...	...	...	...	...	...	...	3	...	2	...	...	...	...	2	2	...	2	...	3	46E
5	5	...	7	...	11	4	3	4	4	1	3	3	2	4	2	1	4	...	2	2	4	...	2	...	1	1	3	5	14	5	30	46G
2	1	...	1	...	5	3	...	1	1	2	1	2	2	...	1	...	1	...	...	1	...	...	...	...	1	...	...	...	3	2	7	47
...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	47A
2	...	...	1	...	3	1	...	1	1	1	...	1	2	...	1	...	1	...	...	1	...	...	...	...	1	...	...	...	3	2	4	47B
...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	47C
...	1	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	47D
...	3	...	1	1	1	2	...	7	1	1	2	2	3	3	1	1	5	...	1	1	1	...	1	3	2	4	1	2	5	3	20	48
...	3	...	1	1	1	1	...	6	1	1	1	2	3	3	1	1	5	...	...	1	1	...	1	2	2	3	1	1	3	2	12	48A
...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	1	...	1	...	1	2	1	8	48B
1	...	...	2	...	1	1	...	...	1	...	...	...	...	...	1	...	1	...	...	...	2	...	...	...	3	1	...	...	2	...	4	49
2	5	3	2	1	6	4	3	4	3	3	3	1	4	4	2	2	4	...	2	...	5	1	2	...	2	2	7	1	8	4	20	50
6	1	1	3	...	8	1	1	2	3	...	3	1	2	...	2	...	2	1	...	2	1	2	1	...	...	2	1	3	6	3	11	51
2	...	...	1	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	1	...	...	1	...	...	2	2	4	51A
...	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	51B
4	...	...	1	...	3	1	1	2	3	...	3	...	1	...	2	...	2	1	...	2	1	1	...	...	...	...	1	1	3	1	5	51C
...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	51D
...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1	51E
...	2	3	...	1	1	...	...	1	...	1	...	...	1	...	...	1	...	1	...	1	4	1	1	...	...	...	1	...	2	3	2	52
1	3	1	3	...	4	1	2	1	3	...	3	3	1	6	1	2	2	1	4	...	2	1	2	...	2	5	3	2	8	3	11	53
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	53A
...	...	...	...	...	1	...	1	1	...	...	1	...	...	2	...	1	1	...	1	...	...	1	2	...	...	...	1	2	2	...	2	53C
...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	1	...	2	...	...	...	...	...	...	1	1	...	...	1	...	53D
...	2	...	...	...	...	...	...	...	1	...	...	2	...	...	1	...	...	...	...	...	1	...	...	...	...	2	...	...	3	...	2	53E
...	...	...	2	...	...	...	1	...	...	...	1	...	...	1	...	1	...	...	...	...	...	...	...	...	1	...	1	...	...	1	2	53F
...	...	...	1	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	53G
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	53H
1	...	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	53I
...	1	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	1	...	1	53J
...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	1	53K
...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	1	53M
1	1	1	1	...	3	...	1	...	1	1	3	1	2	5	1	1	...	...	1	...	1	2	...	...	2	...	1	1	8	4	5	54
...	1	1	...	...	...	...	1	...	1	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...	54A
1	...	...	...	...	1	...	...	...	...	1	2	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	4	54B
...	...	...	...	...	1	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...	1	1	...	...	...	...	...	...	1	1	...	54D
...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	...	...	...	...	...	...	...	1	...	...	...	...	...	1	5	3	...	54C
...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	54F
...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1	...	...	...	1	54G
...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	55
...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	55D
...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	55G
5	6	1	7	3	9	5	13	6	4	8	10	6	3	12	4	9	7	2	4	1	11	5	9	3	4	7	11	3	22	5	31	
1	...	...	1	1	...	1	4	...	...	1	2	4	...	1	...	2	1	...	1	...	3	1	1	...	...	...	4	...	4	...	5	56
...	...	...	...	...	1	1	1	2	...	...	2	...	...	2	...	...	...	...	1	...	1	...	...	...	...	1	...	...	4	...	...	57

TABLE 39—CAUSES OF DEATH FOR COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton
59. Diabetes mellitus	214	1	3	7	9	2	3	1	6	7	5	8	1	1	1	9	3	1	6	2	6	..	8	7
63. Rickets	10	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
65. Diseases of the pituitary gland	2	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Diseases of the thyroid and parathyroid glands	73	..	3	1	3	2	3	1	1	3	1	..	2	1	1	2	2	..	2	1	2	1	1	..
66A. Simple goitre	15	..	3	1	..	..	..	..	1	..	..	..	1	..	..	..	1	..	..	..	1	..	..	..
66B. Exophthalmic goitre	49	..	..	..	2	1	3	1	..	1	1	..	1	1	1	2	1	..	1	1	1	1	1	..
66C. Myxoedema, cretinism	5	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
66D. Tetany	2	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66E. Others under this title	2	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. Diseases of the thymus gland	13	..	..	..	1	2	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
68. Diseases of the adrenals (Addison's disease)	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. Other general diseases	13	..	..	..	2	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
69A. Fatty or amyloid degeneration	9	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69C. Others under this title	4	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Class VI.—Diseases of the Blood and Blood-Forming Organs																								
Total	186	1	1	1	5	1	2	3	1	8	7	3	3	1	1	5	4	2	2	9	6	..	6	5
70. Haemorrhagic conditions	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..
70A. Simple purpura	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
70B. Haemophilia	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
71. Anaemia	145	1	1	1	4	..	2	3	1	7	5	3	3	1	..	4	3	2	1	9	3	..	3	5
71A. Pernicious anaemia	126	1	1	1	4	..	1	3	1	6	5	3	2	1	..	4	3	1	1	6	2	..	2	5
71B. Others under this title	19	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	1	..	3	1	..	1	..
72. Leukaemia and aleukaemia	31	..	..	..	1	..	..	..	..	..	1	..	..	..	1	..	1	..	1	..	2	..	2	..
72A. Leukaemia	25	..	..	..	1	..	..	..	..	..	1	..	..	..	1	..	..	..	1	..	2	..	2	..
72B. Aleukaemia (Hodgkin's disease)	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
73. Diseases of the spleen	5	..	..	..	..	1	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..
74. Other diseases of the blood and blood-forming organs	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Class V.—Chronic Poisonings and Intoxications																								
Total	20	..	1	..	1	..	2	..	..	..	..	..	..	..	..	1	1	..	..	2	1	1	2	2
75. Alcoholism	18	..	1	..	1	..	2	..	..	..	..	..	..	..	..	1	..	..	..	2	1	..	2	2
75A. Delirium tremens	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
75B. Other alcoholic intoxications	16	..	1	..	1	..	2	..	..	..	..	..	..	..	..	1	..	..	..	2	1	..	2	1
76. Chronic poisoning, by other organic substances	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..
76A. Chronic morphinism	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
76B. Chronic cocainism	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Class VI.—Diseases of the Nervous System and of the Organs of Special Sense																								
Total	758	6	9	11	31	11	6	11	7	8	11	13	23	7	9	39	4	2	6	18	21	6	20	17
78. Encephalitis (non-epidemic)	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
79. Simple meningitis	9	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	2	..	..	..
80. Progressive locomotor ataxia (tabes dorsalis)	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
81. Other diseases of the spinal cord	53	1	..	..	..	1	..	4	1	1	..	1	3	..	3	1	..	..	..	3	3	..	1	1
82. Cerebral haemorrhage, cerebral embolism and thrombosis	383	2	4	8	16	5	4	3	5	2	9	9	6	6	5	16	2	1	2	12	9	..	9	9
82A. Cerebral haemorrhage	318	2	3	8	12	4	3	..	5	2	9	9	4	6	5	14	2	1	2	10	9	..	8	7

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
4	5	..	4	1	4	2	3	4	2	6	4	2	1	7	2	4	4	1	2	1	3	2	7	1	3	3	5	1	9	3	17	59
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	2	1	...	1	1	...	...	...	...	...	...	63
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	65
...	1	1	1	1	3	...	2	...	2	...	2	...	1	1	2	3	2	...	...	...	2	1	1	...	...	2	2	1	3	...	6	66
...	1	...	...	...	1	...	...	...	1	...	...	...	1	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	66A
...	...	1	1	1	2	...	1	...	1	...	1	...	...	1	2	...	1	...	...	...	2	1	1	...	...	2	2	1	2	...	6	66B
...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	66C
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	66D
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	66E
...	...	...	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	2	2	67
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	68
...	...	...	...	...	1	...	2	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	69
...	...	...	...	...	1	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	69A
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	69C
2	6	2	1	1	9	2	1	4	5	3	2	1	4	2	4	2	3	2	2	2	9	3	3	..	2	1	5	...	5	3	18	
...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	70
...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	70A
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	70B
1	4	1	..	1	5	1	..	3	5	3	2	1	4	2	3	2	3	2	2	1	8	3	1	..	1	1	4	...	4	3	12	71
1	2	1	..	1	5	1	..	3	4	2	2	1	3	2	3	1	2	2	2	1	7	3	1	..	1	1	4	...	2	3	12	71A
...	2	...	...	...	...	...	...	...	1	1	...	...	1	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	2	...	...	71B
1	1	1	1	..	4	..	1	1	...	...	...	...	...	...	1	...	...	...	...	1	1	...	1	...	1	...	1	...	1	...	5	72
1	1	1	1	..	4	..	1	1	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	1	...	1	...	2	72A
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	3	72B
...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	73
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	74
...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	
...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	75
...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	75A
...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	75B
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76A
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76B
11	17	7	19	5	25	3	9	17	19	17	18	13	7	16	11	6	10	1	15	3	22	8	7	2	16	5	13	7	27	47	59	
...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	78
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	1	...	...	79
...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	80
...	2	1	1	1	1	1	1	2	...	3	1	..	1	...	1	1	...	...	...	...	3	2	...	...	...	...	...	...	...	...	7	81
7	3	6	15	2	15	1	3	8	11	8	10	7	2	12	9	1	4	..	11	2	11	5	5	1	9	3	10	3	20	10	25	82
6	3	3	14	2	13	..	3	7	11	8	7	5	1	11	8	1	3	..	8	2	8	4	4	1	7	1	5	3	17	9	18	82A

TABLE 39—CAUSES OF DEATH BY COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton
82B. Cerebral embolism and thrombosis	31	..	..	..	1	1	..	2	..	..	..	..	2	..	..	1	..	..	..	..	..	..	..	1
82C. Softening of the brain	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
82D. Hemiplegia and other paralysis, cause not specified	30	..	1	..	3	..	1	1	..	..	..	..	..	..	..	1	..	..	..	2	..	..	1	1
83. General paralysis of the insane	30	1	..	..	1	1	..	2	..	..	..	..	3	..	..	1	..	..	..	..	..	..	2	1
84. Dementia praecox and other psychoses	56	..	..	..	1	..	..	..	..	1	..	..	9	..	..	4	..	..	..	..	2	..	..	..
84A. Dementia praecox	41	..	..	..	1	..	..	..	..	..	..	..	9	..	..	..	..	..	..	..	1	..	..	..
84B. Other psychoses	15	..	..	..	..	..	..	..	..	1	..	..	..	..	..	4	..	..	..	..	1	..	..	..
85. Epilepsy	44	..	..	1	3	..	..	..	..	1	..	1	2	..	..	..	..	..	1	1	3	..	..	2
86. Convulsions (under 5 years of age)	24	..	2	..	2	..	..	..	..	..	..	..	..	..	1	1	1	..	..	1	..	3	..	1
87. Other diseases of the nervous system	129	2	1	1	8	4	1	2	..	2	1	2	..	1	..	14	1	1	3	..	3	..	7	2
87A. Chorea	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
87B. Neuralgia and neuritis	8	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..
87C. Paralysis agitans	56	2	1	..	4	3	1	1	..	1	..	..	..	..	..	7	..	..	1	..	2	..	3	1
87D. Sclerosis (other than of the spinal cord)	34	..	..	..	1	1	..	1	..	1	..	..	..	..	..	3	1	..	..	..	..	..	3	..
87E. Others under this title	28	..	..	..	3	..	..	..	..	..	1	2	..	1	..	3	..	..	2	..	..	..	1	1
88. Diseases of the organs of vision	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1
89. Diseases of the ear and mastoid process	17	..	1	1	..	..	..	..	..	1	1	..	..	..	..	1	..	..	..	..	..	..	..	..
89A. Otitis	16	..	1	1	..	..	..	..	..	1	1	..	..	..	..	1	..	..	..	..	..	..	..	..
89B. Diseases of the mastoid process	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM																								
Total	5617	21	68	86	180	97	46	70	51	125	129	125	80	72	78	175	95	18	98	137	215	24	176	169
90–95. Diseases of the heart	3335	11	46	57	107	56	30	39	27	63	77	82	45	43	40	94	44	16	50	92	125	18	109	95
90. Pericarditis	4	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
91. Acute endocarditis	17	..	..	2	..	..	1	..	..	..	..	1	..	1	..	..	..	..	..	..	1	..	..	..
91A. Endocarditis specified as acute	12	..	..	2	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..
91B. Endocarditis unspecified (under 45 years of age)	5	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
92. Chronic endocarditis, valvular diseases	526	1	17	6	25	4	6	6	4	11	9	8	4	15	5	21	11	1	8	11	16	7	17	7
92A. Endocarditis specified as chronic and other valvular diseases	418	1	15	6	23	1	5	6	3	8	8	7	4	7	5	18	4	1	7	10	12	7	10	7
92B. Endocarditis, unspecified (45 years and over)	108	..	2	..	2	3	1	..	1	3	1	1	..	8	..	3	7	..	1	1	4	..	7	..
93. Diseases of the myocardium	1079	6	17	20	35	27	7	11	9	22	20	22	15	16	7	29	15	9	13	39	41	3	44	36
93A. Acute myocarditis	53	2	..	3	..	1	..	..	1	2	3	..	..	2	1	..	1	..	1	4	1	1	1	2
93B. Myocarditis, unspecified (under 45 years of age)	25	..	..	..	1	2	1	..	..	..	1	..	..	..	1	..	..	..	1	..	..	..	..	..
93C. Chronic myocarditis and myocardial degeneration	620	2	8	13	24	9	2	8	4	14	11	10	12	4	4	18	9	6	1	24	28	2	29	25
93D. Myocarditis, unspecified (45 years and over)	381	2	9	4	10	15	4	3	4	6	5	12	3	10	1	11	5	3	10	11	12	..	14	9
94. Diseases of the coronary arteries and angina pectoris	1542	3	11	24	40	24	11	20	13	28	45	49	25	9	25	39	17	6	26	40	56	7	44	48
94A. Diseases of the coronary arteries	44	..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	3	..	2	1	1	..	1	3
94B. Embolism and thrombosis of the coronary arteries	1276	3	5	21	34	22	10	19	8	26	33	39	20	2	24	35	12	4	20	31	50	6	37	41
94C. Angina pectoris	222	..	6	3	6	2	1	1	5	2	12	10	4	6	1	2	2	2	4	8	5	1	6	4
95. Other diseases of the heart	167	1	1	5	7	1	5	2	1	2	3	1	1	2	3	5	1	..	3	2	11	1	4	4
95A. Functional diseases of the heart	24	..	..	..	..	1	..	..	1	1	2	..	1	..	..	..	..	..	..	..	2	..	..	1
95B. Other and unspecified	143	1	1	5	7	..	5	2	..	1	1	1	..	2	3	5	1	..	3	2	9	1	4	3
96. Aneurysm (except of the heart)	12	..	..	..	..	..	..	..	..	2	..	..	..	2	..	..	..	..	1	..	..	..	..	1
97. Arteriosclerosis (of coronary arteries excepted)	1865	9	16	25	60	36	9	27	19	49	47	36	31	23	35	65	45	1	40	36	64	4	53	62
98. Gangrene	48	..	..	..	1	2	2	1	..	3	1	1	2	..	..	6	1	..	..	2	5	..	1	3
99. Other diseases of the arteries	14	..	..	..	2	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
1	...	1	1	..	1	..	..	1	...	...	1	..	1	1	1	..	1	..	3	..	2	1	..	..	1	1	...	...	1	...	4	82B
...	...	1	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	1	...	...	1	...	1	82C
...	...	1	..	..	1	1	..	...	...	...	2	2	..	...	..	..	...	..	...	..	1	..	1	..	1	..	5	...	1	1	2	82D
...	3	..	..	..	...	..	1	...	...	...	1	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	11	2	83
...	7	..	..	..	2	..	..	...	1	1	...	..	..	...	..	1	1	..	1	1	...	..	..	1	..	1	...	...	...	22	...	84
...	6	..	..	..	2	..	..	...	...	1	...	..	..	...	..	..	1	..	1	..	...	..	..	..	..	1	..	...	...	18	...	84A
...	1	..	..	..	...	..	..	...	1	...	...	..	..	...	..	1	...	..	...	1	...	..	..	1	..	..	...	...	...	4	...	84B
1	...	..	1	2	3	..	2	1	...	...	1	1	3	...	..	1	1	..	1	..	3	1	..	..	2	..	1	1	1	...	2	85
...	...	..	..	..	...	..	..	...	1	...	...	2	..	...	..	1	...	..	1	..	...	..	2	..	1	..	...	...	2	...	2	86
3	1	..	2	..	4	..	1	3	5	3	5	1	..	4	1	..	3	1	...	..	5	..	..	..	3	..	2	2	2	4	18	87
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	1	..	...	1	...	...	...	87A
...	...	..	..	..	...	..	..	...	1	...	...	..	..	...	1	..	...	..	...	..	...	..	..	..	..	..	...	...	...	1	2	87B
3	1	..	1	..	2	..	1	2	1	1	1	..	..	2	..	..	2	1	...	..	1	..	..	..	1	..	...	1	2	...	6	87C
...	...	..	1	..	2	..	..	...	2	1	3	..	..	2	..	..	1	..	...	..	...	..	..	..	1	..	2	...	...	2	6	87D
...	...	..	..	..	...	..	..	1	1	1	1	1	..	...	..	..	...	..	...	..	4	..	..	..	..	..	...	...	...	1	4	87E
...	...	..	..	..	...	..	..	...	...	...	...	..	1	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	88
...	...	..	..	..	...	1	1	2	1	2	...	1	..	...	..	1	1	..	...	..	...	..	..	..	..	..	...	...	1	...	1	89
...	...	..	..	..	...	1	1	1	1	2	...	1	..	...	..	1	1	..	...	..	...	..	..	..	..	..	...	...	1	...	1	89A
...	...	..	..	..	...	..	..	1	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	89B
101	130	45	94	42	172	88	47	99	102	110	135	81	66	137	79	44	84	22	88	45	206	70	77	30	59	69	96	101	163	146	454	
48	80	32	58	26	107	46	34	54	58	59	78	50	38	82	51	31	48	13	55	27	117	42	65	23	45	44	47	51	109	63	288	90–95
...	2	..	..	..	...	..	..	...	...	...	...	..	..	1	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	90
...	...	..	..	..	...	..	..	...	...	...	...	..	..	1	..	1	...	..	...	2	...	..	..	1	..	..	1	...	2	...	3	91
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	1	...	..	...	2	...	..	..	1	..	..	1	...	...	...	2	91A
...	...	..	..	..	...	..	..	...	...	...	...	..	..	1	..	..	...	..	...	..	...	..	..	..	..	..	...	...	2	...	1	91B
5	16	6	3	9	17	7	7	9	2	9	10	2	8	10	8	5	14	3	15	3	17	13	10	3	4	10	8	4	23	5	41	92
4	15	2	3	9	12	6	2	6	1	5	6	2	7	9	7	4	13	2	9	3	16	8	8	3	2	9	5	2	21	5	37	92A
1	1	4	..	..	5	1	5	3	1	4	4	..	1	1	1	1	1	1	6	..	1	5	2	..	2	1	3	2	2	...	4	92B
22	20	7	22	12	32	14	11	11	31	16	33	23	3	25	29	15	14	2	21	13	29	18	14	2	18	10	12	19	32	19	67	93
...	5	..	..	..	1	..	..	...	2	2	2	1	..	1	3	1	...	..	1	2	1	1	..	..	1	..	...	...	2	...	1	93A
...	1	..	..	..	...	..	2	...	...	...	1	1	..	...	..	2	...	..	...	1	2	..	1	..	..	..	...	...	1	...	6	93B
12	11	5	13	8	12	11	4	5	20	10	19	14	2	15	16	8	11	..	12	2	21	3	10	2	12	6	5	11	15	10	48	93C
10	3	2	9	4	19	3	5	6	9	4	11	7	1	9	10	4	3	2	8	8	5	14	3	..	5	4	7	8	14	9	12	93D
19	38	15	28	5	56	22	9	32	24	31	35	19	24	42	12	8	15	5	18	9	67	9	38	16	20	24	25	25	46	39	157	94
...	2	..	..	..	...	..	1	1	...	...	1	1	..	...	..	..	...	..	...	..	1	..	2	4	1	..	...	...	7	1	7	94A
18	27	8	25	5	48	19	4	27	17	30	25	14	21	34	9	5	13	5	17	6	64	6	35	12	18	19	21	23	35	29	135	94B
1	9	7	3	..	8	3	4	4	7	1	9	4	3	8	3	3	2	..	1	3	2	3	1	..	1	5	4	2	4	9	15	94C
2	4	4	5	..	2	3	7	2	1	3	...	6	3	3	2	2	5	3	1	..	4	2	3	1	3	..	1	3	6	...	20	95
1	...	..	1	..	...	2	1	...	...	...	...	..	..	1	..	..	...	1	...	..	...	..	..	..	1	..	...	1	2	...	4	95A
1	4	4	4	..	2	1	6	2	1	3	...	6	3	2	2	2	5	2	1	..	4	2	3	1	2	..	1	2	4	...	16	95B
...	...	..	1	..	...	1	..	...	1	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	1	2	96
43	47	9	29	12	55	30	8	38	39	40	48	23	24	49	22	10	30	9	22	14	77	23	8	3	10	23	44	42	47	72	123	97
...	...	1	1	..	2	1	..	...	1	1	1	..	..	...	2	..	...	..	...	1	2	2	..	..	..	..	...	...	...	...	2	98
...	...	..	..	..	...	1	..	...	...	1	1	1	..	1	..	1	...	..	1	..	...	..	..	..	..	..	...	...	...	...	2	99

TABLE 39—CAUSES OF DEATH BY COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton
100. Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	25	..	..	..	1	..	1	1	..	1	1	1	..	..	..	1	1	..	..	1	..	..	1	2
101. Diseases of the lymphatic system (lymphangitis, etc.)	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
102. Idiopathic abnormalities of blood pressure	314	1	6	4	9	3	4	2	4	7	3	5	2	4	3	9	4	1	7	6	18	2	12	6
103. Other diseases of the circulatory system	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM																								
Total	1174	11	16	16	30	13	31	17	12	28	21	18	17	18	14	30	12	7	13	23	44	22	30	27
104. Diseases of the nasal fossae and annexa	15	..	..	..	1	..	1	1	1	..	..	..	..	1	..	..	..	..	..	1	1	1	..	..
105. Diseases of the larynx	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
105B. Other diseases of the larynx	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
106. Bronchitis	44	..	..	..	2	1	..	..	..	..	..	..	1	1	..	2	..	1	..	..	1	..	1	1
106A. Acute	15	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	1	..	..	1
106B. Chronic	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..
106C. Unspecified	8	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
107. Bronchopneumonia	466	5	4	9	11	4	13	9	1	16	10	7	8	2	3	9	7	3	6	8	22	5	16	9
107A. Bronchopneumonia	463	5	4	9	11	4	12	9	1	15	10	7	8	2	3	9	7	3	6	8	22	5	16	9
107B. Capillary bronchitis	3	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
108. Lobar pneumonia	345	4	6	4	9	4	9	..	8	7	4	4	4	8	4	11	1	1	5	7	12	3	10	12
109. Pneumonia, unspecified	149	1	4	..	3	3	4	3	..	1	6	4	3	3	2	1	2	..	1	5	2	11	2	2
110. Pleurisy	17	..	..	1	..	..	..	1	..	..	..	..	..	1	..	..	..	..	1	..	2	1	..	1
111. Congestion and haemorrhagic infarct of the lung, etc.	35	..	1	..	..	1	1	2	1	1	..	..	1	..	1	1	..	2	..	1	1	..	..	..
111A. Pulmonary embolism and thrombosis	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
111B. Others under this title	31	..	1	..	..	1	1	2	1	1	..	..	1	..	1	1	..	2	..	1	1	..	..	..
112. Asthma	80	1	1	2	3	..	2	1	1	1	..	2	..	2	4	6	2	..	..	1	3	..	..	..
113. Pulmonary emphysema	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
114. Other diseases of the respiratory system (tuberculosis excepted)	18	..	..	..	1	..	1	..	..	2	1	1	..	..	..	..	..	..	..	..	..	1	1	1
114A. Chronic interstitial pneumonia including occupational diseases of the respiratory system	4	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
114B. Gangrene of the lung	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
114C. Others under this title	13	..	..	..	..	..	1	..	..	2	..	1	..	..	..	..	..	..	..	..	..	1	1	1
CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM																								
Total	701	2	9	13	20	15	28	14	4	13	10	9	6	12	6	18	7	2	8	14	31	7	13	26
115. Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations)	39	..	..	..	1	..	..	1	..	..	3	2	1	1	1	1	..	..	..	3	3	..	1	1
115A. Diseases of the buccal cavity and annexa	20	..	..	..	..	..	..	1	..	..	1	..	..	1	1	1	..	..	..	3	2	..	..	..
115B. Diseases of the tonsils	9	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	1	..	1	..
115C. Others under this title	10	..	..	..	1	..	..	..	..	..	1	1	1	..	..	..	..	..	..	..	..	..	..	1
116. Diseases of the oesophagus	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
117. Ulcer of the stomach or duodenum	83	..	3	1	4	..	2	3	..	3	..	..	..	1	2	..	..	1	2	1	7	1	3	1
117A. Ulcer of the stomach	48	..	3	..	2	..	2	1	..	2	..	..	..	..	2	..	..	..	1	1	3	..	2	1
117B. Ulcer of the duodenum	35	..	..	1	2	..	..	2	..	1	..	..	..	1	..	..	..	1	1	..	4	1	1	..
118. Other diseases of the stomach	26	..	2	..	..	2	2	..	..	1	..	..	..	..	..	..	1	..	..	..	1	..	..	..
119. Diarrhoea and enteritis (under 2 years of age)	127	..	2	1	4	2	11	..	2	2	..	2	..	3	..	2	..	..	..	2	2	1	..	5
120. Diarrhoea and enteritis (2 years and over)	97	..	..	5	3	1	..	3	..	2	1	1	4	5	..	2	..	..	..	2	6	1	6	5
120A. Diarrhoea and enteritis	79	..	..	5	2	1	..	1	..	2	1	1	2	4	..	1	..	..	..	1	4	..	6	4

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Timiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
...	...	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	1	1	2	...	1	2	100
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	101
9	3	3	5	4	7	8	5	7	2	9	7	7	4	5	4	2	5	...	10	2	8	2	4	4	4	1	4	6	7	9	35	102
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	103
25	21	1	17	7	39	20	21	26	19	26	27	21	9	14	9	14	19	6	17	9	39	19	41	6	15	16	18	21	36	54	72	
...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	2	104
...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	105
...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	105B
2	...	1	1	...	...	...	1	...	1	3	...	1	...	...	...	...	1	...	...	2	2	2	1	...	1	1	...	2	3	2	6	106
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1	...	...	1	3	1	...	106A
1	...	1	1	...	...	...	...	...	1	1	...	1	...	...	...	...	1	...	...	1	1	2	1	...	...	1	...	1	...	1	4	106B
...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	106C
7	11	...	6	...	16	4	9	17	4	5	10	10	7	2	5	7	3	1	8	1	24	8	25	2	5	9	10	6	9	26	22	107
7	11	...	6	...	16	4	9	17	4	5	10	10	6	2	5	7	3	1	8	1	24	8	25	2	5	9	10	6	9	26	22	107A
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	107B
13	6	...	8	4	9	12	4	4	8	10	10	6	...	6	1	3	7	2	4	3	7	4	9	...	5	2	1	11	10	17	22	108
2	2	...	1	2	6	1	3	2	3	4	5	3	2	2	1	2	4	2	3	...	4	4	4	2	3	1	2	2	4	2	8	109
...	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	...	2	1	...	110
...	1	...	...	...	2	...	...	...	1	4	...	...	...	...	1	...	1	...	...	...	1	...	...	...	...	...	1	...	3	1	5	111
...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	111A
...	1	...	...	...	2	...	...	...	1	3	...	...	...	...	1	...	1	...	...	...	1	...	...	...	...	...	1	...	2	1	3	111B
1	...	...	...	...	4	3	2	2	1	...	2	1	...	3	1	2	2	1	...	2	...	...	1	...	...	3	3	...	5	2	7	112
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	113
...	...	...	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	1	1	1	...	...	...	...	2	...	114
...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	114A
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	114B
...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	2	...	114C
10	7	2	6	12	17	12	22	12	8	10	18	10	11	9	5	11	10	5	13	13	34	10	15	5	20	7	10	6	23	7	54	
...	1	...	...	...	...	...	2	1	...	...	2	...	1	1	...	...	1	...	2	...	...	...	1	...	...	1	...	...	2	2	3	115
...	1	...	...	...	...	...	1	1	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	2	1	115A
...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	1	115B
...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	1	115C
...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	116
1	...	...	...	1	3	3	1	...	1	2	4	1	2	1	...	...	...	...	1	1	7	3	1	1	1	...	2	1	...	1	9	117
...	...	...	...	1	1	...	1	...	1	1	4	1	1	1	...	...	...	...	1	1	6	1	1	...	...	...	1	1	...	...	4	117A
1	...	...	...	...	2	3	...	...	...	1	...	...	1	...	...	...	...	...	...	...	1	2	...	1	1	...	1	...	...	1	5	117B
...	...	...	...	1	...	...	4	1	...	...	...	...	...	...	2	1	...	1	1	...	...	1	1	...	...	...	1	...	1	1	1	118
...	1	...	1	8	5	2	11	1	2	...	4	5	1	...	...	5	5	4	4	2	4	3	6	2	5	1	...	1	...	1	2	119
1	...	1	1	1	2	1	1	3	2	1	...	2	...	1	2	1	2	...	2	1	10	...	1	...	4	2	1	...	3	...	4	120
...	...	1	1	1	1	1	1	3	2	1	...	2	...	...	2	1	2	...	2	1	10	...	1	...	3	2	1	...	2	...	3	120A

TABLE 39—CAUSES OF DEATH BY COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora incl. Patricia	Kent	Lambton
120B. Ulceration of the intestines	18	...	...	...	1	...	...	2	...	...	...	...	2	1	...	1	...	...	...	1	2	1	...	1
121. Appendicitis	66	...	1	...	4	1	6	2	...	...	1	...	1	...	...	2	2	1	...	1	3	2	...	1
122. Hernia, intestinal obstruction	84	1	1	1	1	2	2	1	...	3	...	...	...	1	1	5	2	...	2	...	3	1	2	5
122A. Hernia	39	1	1	1	...	1	1	...	...	2	...	...	...	1	1	3	...	...	1	...	1	1	1	1
122B. Intestinal obstruction	45	...	...	...	1	1	1	1	...	1	...	...	...	...	...	2	2	...	1	...	2	...	1	4
123. Other diseases of the intestines	10	1	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	1	...	1	...	...
124. Cirrhosis of the liver	39	...	...	2	...	2	1	...	...	1	...	4	...	...	1	...	2	...	1	1	...	...	...	2
124A. Specified as alcoholic	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
124B. Not specified as alcoholic	38	...	...	2	...	2	1	...	...	1	...	3	...	...	1	...	2	...	1	1	...	...	...	2
125. Other diseases of the liver	14	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	1
125A. Yellow atrophy of the liver	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
125B. Others under this title	13	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...
126. Biliary calculi	52	...	...	...	2	3	...	1	...	1	3	...	...	...	1	2	...	...	1	1	2	...	1	3
127. Other diseases of the gall-bladder and biliary passages	49	...	...	1	...	2	3	1	1	...	1	...	...	1	...	3	...	...	1	2	2	...	...	2
128. Diseases of the pancreas	3	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
129. Peritonitis, cause not specified	10	...	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM																								
Total	1207	3	14	23	51	18	30	8	17	21	19	36	10	19	24	40	12	1	14	31	41	5	20	42
130. Acute nephritis (including unspecified, under 10 years of age)	21	...	...	2	1	...	2	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1	...
131. Chronic nephritis	669	3	9	14	34	6	17	4	13	9	10	22	6	7	17	22	3	1	7	19	21	3	8	21
132. Nephritis, unspecified (10 years and over)	210	...	4	2	1	7	2	...	2	4	2	8	2	8	5	8	5	...	1	6	11	2	4	7
133. Other diseases of the kidneys and ureters	49	...	...	...	1	2	...	1	1	2	...	1	...	1	1	3	...	...	1	...	...	...	...	1
134. Calculi of the urinary passages	15	...	...	...	1	...	1	1	...	2	1	...	...	...	...	...	...	...	1	...	...	...	...	...
135. Diseases of the bladder (tumours excepted)	39	...	...	...	...	...	...	1	1	2	1	...	...	...	...	...	...	...	...	2	1	...	1	...
136. Diseases of the urethra, urinary abscess, etc.	4	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2
136A. Stricture of the urethra	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
136B. Others under this title	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
137. Diseases of the prostate	175	...	1	5	13	3	3	1	...	2	4	4	2	2	1	6	4	...	3	3	8	...	6	11
138. Diseases of the male genital organs (not specified as venereal)	4	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
139. Diseases of the female genital organs (not specified as venereal)	21	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	...	...
139A. Of the ovary, Fallopian tube and parametrium	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
139B. Of the uterus	15	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...
139C. Of the breast	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE																								
Total	70	...	2	3	4	2	7	...	2	1	...	...	...	1	...	1	1	...	2	1	3	1	...	1
140. Abortion with septic conditions	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
140A. Abortion	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
140B. Self-induced abortion	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
141. Abortion without mention of septic conditions (haemorrhage included)	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
141A. Abortion	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
142. Ectopic gestation	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
142A. With septic conditions	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
142B. Without mention of septic conditions	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
144. Puerperal haemorrhage	8	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
1	...	..	..	..	1	..	..	...	...	...	...	..	..	1	..	..	...	..	...	..	...	..	..	..	1	..	...	...	1	...	1	120B
2	1	..	1	..	1	3	..	...	...	...	2	..	..	...	1	1	1	..	...	..	3	..	2	1	3	..	...	1	7	...	8	121
1	1	1	..	..	1	2	..	...	2	5	2	1	1	...	..	..	1	..	2	1	7	1	2	1	3	1	3	1	3	1	6	122
...	...	..	..	..	1	..	..	...	2	3	2	1	1	...	..	..	...	..	2	..	3	1	..	..	2	..	1	...	...	...	3	122A
1	1	1	..	..	...	2	..	...	...	2	...	..	..	...	..	..	1	..	...	1	4	..	2	1	1	1	2	1	3	1	3	122B
1	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	1	..	...	..	..	..	..	..	...	...	1	...	2	123
1	2	..	1	..	...	..	1	2	...	...	1	..	2	1	..	1	...	..	...	1	1	1	..	..	2	1	...	...	1	...	3	124
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	124A
1	2	..	1	..	...	..	1	2	...	...	1	..	2	1	..	1	...	..	...	1	1	1	..	..	2	1	...	...	1	...	3	124B
...	...	..	..	..	...	1	..	...	...	...	2	..	1	1	..	1	...	..	...	..	...	1	..	..	..	..	...	...	...	...	1	125
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	125A
...	...	..	..	..	...	1	..	...	...	...	2	..	1	1	..	1	...	..	...	..	...	1	..	..	..	..	...	...	...	...	1	125B
1	...	..	..	1	1	..	..	1	...	2	1	1	1	3	..	..	...	..	...	2	1	..	1	..	1	1	1	1	1	...	10	126
1	...	..	1	..	4	..	1	3	...	...	...	..	2	...	..	..	...	..	...	3	1	..	..	..	1	..	2	1	4	1	4	127
...	...	..	..	..	...	..	..	...	...	...	...	..	..	1	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	1	128
1	1	..	..	..	...	..	1	...	1	...	...	..	..	...	..	..	...	..	...	2	...	..	..	..	..	..	...	...	...	...	...	129
21	12	14	21	8	54	9	21	13	28	18	29	20	10	35	10	13	22	9	27	14	58	15	17	5	10	14	21	20	35	16	89	
2	1	..	..	..	...	1	1	...	...	...	...	..	1	...	..	..	1	..	2	..	1	..	2	..	..	..	...	...	...	...	1	130
13	6	7	13	3	31	3	12	7	22	9	16	14	3	24	5	5	16	5	11	12	33	12	7	4	4	4	14	10	16	7	45	131
1	1	4	3	2	11	2	5	2	2	3	2	2	3	4	2	5	1	3	6	1	7	..	6	..	1	2	5	7	7	3	16	132
3	1	..	..	2	3	..	1	...	...	1	...	1	2	2	1	2	...	..	1	..	5	2	..	..	..	2	...	...	2	1	2	133
1	...	..	..	..	1	..	..	...	...	...	...	..	..	2	1	..	...	..	1	..	...	..	..	..	..	1	...	...	...	...	1	134
...	...	1	1	..	3	1	..	2	1	1	2	..	1	1	..	..	...	..	2	..	3	..	..	1	..	1	...	...	1	1	7	135
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	1	..	..	..	..	..	...	...	...	...	...	136
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	136A
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	1	...	..	..	..	..	..	...	...	...	...	...	136B
1	3	2	4	1	5	2	2	2	1	4	8	2	..	2	1	1	4	..	4	1	7	1	1	..	3	4	2	2	8	3	12	137
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	1	...	138
...	...	..	..	..	...	..	..	...	2	...	1	1	..	...	..	..	...	1	...	..	1	..	1	..	2	..	...	1	1	...	5	139
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	1	...	..	...	..	1	..	1	..	...	...	...	...	...	139A
...	...	..	..	..	...	..	..	...	1	...	1	1	..	...	..	..	...	..	...	..	1	..	..	..	1	..	...	1	1	...	4	139B
...	...	..	..	..	...	..	..	...	1	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	1	139C
1	1	..	..	..	...	1	2	...	1	1	...	1	..	1	1	3	4	..	1	1	2	..	5	..	3	..	...	...	3	...	6	
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	1	..	...	..	1	..	..	..	...	...	...	...	1	140
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	1	..	...	..	1	..	..	..	...	...	...	...	...	140A
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	1	140B
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	1	..	1	..	...	...	...	...	...	141
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	1	..	1	..	...	...	...	...	...	141A
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	1	...	..	...	..	...	..	..	..	..	..	...	...	...	...	1	142
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	1	142A
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	1	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	142B
...	...	..	..	..	...	1	..	...	...	...	...	..	..	...	1	..	1	..	...	..	...	..	2	..	..	..	...	...	...	...	...	144

TABLE 39—CAUSES OF DEATH FOR COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora incl. Patricia	Kent	Lambton
144A. Placenta praevia	4	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
144B. Other haemorrhages	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...
145. Puerperal septicaemia (not specified as due to abortion)	10	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
145A. Puerperal septicaemia pyaemia	10	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
146. Puerperal albuminuria and eclampsia	12	...	...	...	1	...	4	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	1
147. Other toxaemias of pregnancy	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
148. Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)	19	...	...	2	...	1	1	...	1	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...
148A. Phlegmasia alba dolens and thrombosis	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
148B. Embolism	9	...	...	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
148C. Sudden death	5	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
149. Other accidents of childbirth	11	...	2	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...
149A. Caesarean operation	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
149C. Dystocia	8	...	2	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...
149E. Others under this title	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE																								
Total	32	...	...	1	...	1	3	2	...	...	...	...	1	...	...	1	1	...	2	1	2	...	1	...
151. Carbuncle	8	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
152. Cellulitis, acute abscess	11	...	...	...	...	...	1	1	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...
153. Other diseases of the skin and annexa and of the cellular tissue	13	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	1	...	2	1	...	...	1	...
CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION																								
Total	30	...	...	2	2	...	1	...	...	3	1	1	1	...	...	1	1	...	...	...	...	...	2	...
154. Osteomyelitis	12	...	...	1	2	...	1	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
155. Other diseases of the bones (tuberculosis excepted)	13	...	...	...	...	...	...	...	...	1	...	1	...	...	...	1	1	...	...	...	...	...	2	...
156. Diseases of the joints and other organs of locomotion	5	...	...	1	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
156A. Of the joints (tuberculosis and rheumatism excepted)	3	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
156A. Of other organs of locomotion	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CLASS XIV.—CONGENITAL MALFORMATIONS																								
Total	193	1	...	6	4	1	11	2	3	...	2	7	2	4	3	4	2	2	1	12	9	2	5	2
157. Congenital malformations (stillbirths excluded)	193	1	...	6	4	1	11	2	3	...	2	7	2	4	3	4	2	2	1	12	9	2	5	2
157A. Congenital hydrocephalus	21	...	...	1	...	...	...	...	1	...	...	1	1	...	1	...	2	...	...	...	1	...	1	...
157B. Spina bifida and meningocele	45	...	...	1	2	1	3	2	1	...	...	1	...	1	...	1	...	1	...	1	3	...	...	...
157C. Congenital malformations of the heart	88	...	...	4	1	...	5	...	1	...	1	4	1	2	2	1	...	1	1	5	5	2	3	2
157D. Monstrosities	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
157E. Others under this title	37	1	...	...	1	...	3	...	...	...	1	1	...	1	...	2	...	...	...	5	...	...	1	...

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	144A
...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	144B
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	145
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	145A
...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	146
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	147
...	1	...	...	...	...	...	1	...	...	1	...	1	...	1	...	...	2	...	...	...	1	...	1	...	1	...	...	...	1	...	1	148
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	148A
...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	1	...	...	...	1	...	...	...	1	...	...	...	1	...	...	148B
...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	148C
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	149
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	149A
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	149B
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	149E
1	1	...	...	1	...	...	...	2	1	...	...	...	...	...	...	1	1	...	...	...	2	...	...	...	...	...	...	2	1	1	2	
...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	151
...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2	1	...	2	152
1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...	1	...	153
1	...	...	1	3	...	...	...	...	...	...	...	...	...	1	...	1	1	...	1	...	...	1	...	...	...	...	...	...	1	1	3	
...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	1	1	154
1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	1	...	2	155
...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	156
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	156A
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	156B
3	3	...	4	...	3	6	2	4	4	3	4	1	3	3	2	5	1	1	4	4	7	2	7	1	1	...	4	2	7	3	14	
3	3	...	4	...	3	6	2	4	4	3	4	1	3	3	2	5	1	1	4	4	7	2	7	1	1	...	4	2	7	3	14	157
...	1	...	...	...	...	2	1	1	...	...	...	...	...	1	1	...	...	...	1	...	...	...	1	...	...	...	...	1	1	1	...	157A
1	...	...	1	...	...	2	...	2	2	1	1	...	...	...	...	2	1	...	1	...	1	...	2	...	...	...	4	...	1	1	4	157B
2	2	...	2	...	3	1	...	1	2	2	3	...	1	2	1	3	...	1	2	4	1	2	2	1	1	...	...	1	...	1	6	157C
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	157D
...	...	...	1	...	...	1	1	...	...	...	...	1	2	...	...	...	...	...	...	...	5	2	...	...	...	...	...	4	...	...	4	157E

TABLE 39—CAUSES OF DEATH BY COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora incl. Patricia	Kent	Lambton
CLASS XV.—DISEASES OF EARLY INFANCY																								
Total	638	1	17	7	18	5	37	6	10	12	4	16	4	4	9	15	3	5	2	12	16	17	9	12
158. Congenital debility	69	..	1	1	5	1	5	..	..	...	1	...	2	1	1	2	2	2	1	...	1	2	3	...
159. Premature birth	362	..	12	2	8	1	20	4	8	9	2	12	1	1	5	10	...	1	1	7	10	8	4	10
160. Injury at birth	104	..	2	..	2	2	5	1	1	...	1	3	1	1	1	3	1	1	..	1	3	5	...	1
160A. With mention of caesarean operation	1	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...
160B. Without mention of caesarean operation	103	..	2	..	2	2	5	1	1	...	1	3	1	1	1	3	1	1	..	1	3	5	..	1
161. Other diseases peculiar to early infancy (under 3 months)	103	1	2	4	3	1	7	1	1	3	...	1	...	1	2	...	...	1	..	4	2	2	2	1
161A. Atelectasis	29	..	..	..	...	...	..	..	..	...	...	1	...	..	1	...	...	..	..	1	...	..	...	...
161B. Icterus of the new-born	15	..	..	..	...	...	..	..	1	1	...	...	...	..	1	...	...	..	..	2	...	1	...	...
161C. Sclerema and oedema	1	1	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...
161D. Athrepsia	8	..	1	1	...	...	1	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	1
161E. Others, including lack of care	45	..	..	3	3	1	3	1	..	2	...	...	...	1	..	...	...	1	..	1	2	1	2	...
161F. No cause given, no doctor in attendance	5	..	1	..	...	...	3	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...
CLASS XVI.—SENILITY																								
Total	271	..	4	4	5	6	..	4	5	2	12	1	8	2	3	12	3	1	2	4	6	1	7	7
162. Senility	271	..	4	4	5	6	..	4	5	2	12	1	8	2	3	12	3	1	2	4	6	1	7	7
162A. With senile dementia (70 years and over)	108	..	3	1	2	3	..	..	1	...	4	...	6	..	..	4	...	1	..	3	3	..	4	3
162B. Without senile dementia (70 years and over)	163	..	1	3	3	3	..	4	4	2	8	1	2	2	3	8	3	..	2	1	3	1	3	4
CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS																								
Total	1318	3	26	15	27	21	48	19	8	24	19	48	24	9	12	25	16	6	21	28	31	22	39	18
163–171. Suicides	165	..	3	2	4	3	7	1	..	4	3	6	5	2	1	1	1	..	2	4	5	6	2	...
163. Suicide by solid or liquid poisons or by absorption of corrosive substances	16	..	..	..	...	1	2	..	..	1	1	...	...	..	..	...	...	..	..	...	1	..	...	...
164. Suicide by poisonous gas	13	..	..	1	2	1	..	..	..	...	...	1	...	1	..	...	1	..	..	...	...	..	...	...
165. Suicide by hanging or strangulation	53	..	2	1	1	...	2	..	..	...	...	2	1	1	..	...	...	..	1	3	2	..	1	...
166. Suicide by drowning	28	..	1	..	1	1	..	..	..	...	1	2	1	..	..	1	...	..	..	...	...	..	...	...
167. Suicide by firearms	39	..	..	..	...	...	2	1	..	1	1	1	1	..	1	...	...	..	1	1	1	6	1	...
168. Suicide by cutting or piercing instruments	8	..	..	..	...	...	..	..	..	2	...	...	1	..	..	...	...	..	..	...	...	..	...	...
169. Suicide by jumping from high places	2	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...
170. Suicide by crushing	3	..	..	..	...	...	..	..	..	...	...	...	1	..	..	...	...	..	..	...	...	..	...	...
171. Suicide by other means	3	..	..	..	...	...	1	..	..	...	...	...	...	..	..	...	...	..	..	...	1	..	...	...
173–175. Homicides	17	..	1	..	...	1	2	..	..	...	...	...	...	..	1	1	...	..	..	...	1	..	...	...
173. Homicide by firearms	6	..	1	..	...	...	2	..	..	...	...	...	...	..	..	1	...	..	..	...	...	..	...	...
174. Homicide by cutting or piercing instruments	1	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...
175. Homicide by other means	10	..	..	..	...	1	..	..	..	...	...	...	...	..	1	...	...	..	..	...	1	..	...	...
176–198. Other violent deaths	1136	3	22	13	23	17	39	18	8	20	16	42	19	7	10	23	15	6	19	24	25	16	37	18
177. Food poisoning	2	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...
178. Accidental absorption of toxic gases	8	..	..	..	...	...	3	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...
179. Other acute accidental poisonings (except by gas)	11	..	..	..	1	...	..	1	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Timiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
12	8	2	7	8	6	16	29	1	8	8	10	13	4	8	11	27	6	15	21	19	16	10	41	7	21	2	9	2	18	2	30	
1	...	..	1	..	1	1	6	...	...	...	3	3	..	...	2	2	...	3	1	2	...	3	3	..	2	..	1	1	...	...	2	158
6	6	..	4	5	1	12	19	...	5	7	3	9	1	2	7	14	2	6	11	9	10	3	24	6	15	1	5	...	11	2	20	159
4	1	..	2	1	1	2	1	1	2	...	3	..	3	4	..	9	2	4	6	5	2	2	2	..	3	1	2	...	5	...	1	160
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	1	..	...	...	...	...	...	160A
4	1	..	2	1	1	2	1	1	2	...	3	..	3	4	..	9	2	4	6	5	2	2	2	..	2	1	2	...	5	...	1	160B
1	1	2	..	2	3	1	3	...	1	1	1	1	..	2	2	2	2	2	3	3	4	2	12	1	1	..	1	1	2	...	7	161
...	...	2	..	1	1	..	1	...	1	...	1	..	..	1	2	..	...	..	1	3	1	..	3	1	1	..	1	1	2	...	2	161A
...	1	..	..	..	...	..	..	...	...	...	...	1	..	...	..	..	...	1	...	..	...	1	2	..	..	..	...	...	...	...	3	161B
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	161C
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	1	...	..	1	..	...	..	2	..	..	..	...	...	...	...	...	161D
1	...	..	..	1	2	1	2	...	...	1	...	..	..	1	..	1	2	1	1	..	3	1	4	..	..	..	...	...	...	...	2	161E
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	1	..	..	..	...	...	...	...	...	161F
8	16	7	6	2	4	2	..	11	5	8	6	3	2	2	5	3	6	3	4	3	12	1	1	2	..	..	10	2	11	18	9	
8	16	7	6	2	4	2	..	11	5	8	6	3	2	2	5	3	6	3	4	3	12	1	1	2	..	..	10	2	11	18	9	162
2	11	4	1	1	1	..	..	3	1	5	1	..	1	1	..	..	5	..	1	2	3	..	..	..	..	..	2	2	5	17	1	162A
6	5	3	5	1	3	2	..	8	4	3	5	3	1	1	5	3	1	3	3	1	9	1	1	2	..	..	8	...	6	1	8	162B
19	21	6	26	7	34	20	30	27	20	23	18	24	15	16	16	3	17	25	13	4	48	12	65	42	36	9	13	28	31	32	109	
5	3	2	6	..	2	1	..	4	1	2	3	2	7	2	1	2	2	1	2	3	7	1	3	6	2	..	2	8	4	3	16	163–171
1	...	..	..	..	...	..	..	...	...	...	1	1	1	...	..	..	...	..	1	..	...	..	..	..	..	..	...	...	1	1	3	163
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	1	..	..	..	..	..	...	...	...	1	4	164
1	1	2	1	..	1	1	..	3	...	...	2	..	3	1	1	..	2	..	...	1	4	1	..	3	1	..	1	2	...	...	4	165
1	...	..	3	..	1	..	..	...	...	1	...	..	3	...	..	1	...	..	...	2	...	..	..	1	1	..	...	4	1	...	1	166
2	1	..	2	..	...	..	..	1	1	1	...	1	..	1	..	1	...	1	1	..	1	..	1	2	..	..	...	2	...	...	2	167
...	1	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	1	..	1	..	..	..	...	...	1	...	1	168
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	1	1	169
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	1	..	..	..	1	...	...	...	...	170
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	1	...	...	171
...	1	..	1	..	1	..	..	...	...	...	...	..	..	1	..	..	...	..	...	..	...	..	3	..	2	..	...	...	1	...	...	173–175
...	...	..	1	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	1	..	..	..	...	...	...	...	...	173
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	1	..	..	..	...	...	...	...	...	174
...	1	..	..	..	1	..	..	...	...	...	...	..	..	1	..	..	...	..	...	..	...	..	1	..	2	..	...	...	1	...	...	175
14	17	4	19	7	31	19	30	23	19	21	15	22	8	13	15	1	15	24	11	1	41	11	59	36	32	9	11	20	26	29	93	176–198
...	...	1	..	..	...	..	..	...	...	...	...	..	..	...	..	1	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	177
...	...	..	..	..	...	..	..	...	...	1	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	1	3	178
1	...	..	..	1	...	2	..	1	...	1	...	..	..	...	1	..	...	..	...	..	2	..	..	..	..	..	...	...	...	...	...	179

TABLE 39—CAUSES OF DEATH BY COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora incl. Patricia	Kent	Lambton
180. Conflagration	41	..	1	1	...	...	1	1	..	...	...	3	1	1	1	...	...	..	..	1	1	..	...	...
181. Accidental burns (conflagration excepted)	27	..	2	..	1	1	3	..	..	...	1	...	...	1	1	...	...	1	..	1	1	2	2	...
182. Accidental mechanical suffocation	37	..	..	..	1	...	2	1	..	...	...	1	...	1	..	1	1	..	..	1	...	..	1	1
183. Accidental drowning	225	1	11	3	...	9	8	1	1	3	5	7	3	..	1	1	4	2	1	3	2	5	15	3
184. Accidental injury by firearms	23	..	..	1	1	...	..	1	..	...	...	...	...	..	..	...	...	..	..	2	1	1	...	...
185. Accidental injury by cutting or piercing instruments	5	..	..	..	1	...	1	..	..	...	...	...	1	..	..	...	...	..	..	...	1	..	...	...
186. Accidental injury by fall, crushing or landslide	645	..	7	7	14	5	14	10	5	15	9	24	10	4	4	20	10	3	10	12	16	9	16	14
188. Injuries by animals	19	..	..	..	1	...	1	1	..	1	1	...	...	..	1	1	...	..	1	...	...	..	...	...
190. Excessive cold	7	..	..	..	1	...	..	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	1	...
191. Excessive heat	18	..	..	1	...	...	..	..	1	1	...	3	2	..	..	...	...	..	..	...	...	..	...	...
192. Lightning	5	..	..	..	...	...	..	..	..	...	...	...	1	..	1	...	...	..	..	...	...	..	...	...
193. Accidents due to electric currents	14	..	..	..	2	1	..	1	..	...	...	...	...	..	..	...	...	..	..	.	1	..	...	...
194. Other accidents	36	2	1	..	1	...	2	2	..	...	...	...	1	..	1	...	...	..	1	3	2	..	2	...
194A. Foreign body	3	..	..	..	...	...	..	1	..	...	...	...	...	..	..	...	...	..	..	1	...	..	...	...
194B. Others under this title	33	2	1	..	1	...	2	1	..	...	...	...	1	..	1	...	...	..	1	2	2	..	2	...
195. Violent deaths of which the nature (accident, suicide, homicide) is unknown	12	..	..	..	1	...	3	..	..	...	...	4	...	..	..	...	...	..	..	1	...	..	...	...
198. Capital punishment	1	..	..	..	...	...	..	..	..	...	...	...	...	..	..	...	...	..	..	...	...	..	...	...
CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH																								
Total	48	..	4	1	1	...	10	..	..	...	1	...	...	1	1	...	...	..	..	1	1	..	2	...
199. Sudden death	22	..	..	1	1	...	..	..	..	...	1	...	...	1	..	...	...	..	..	1	1	..	2	...
200. Cause of death not specified or ill-defined	26	..	4	..	...	...	10	..	..	...	...	...	...	..	1	...	...	..	..	...	...	..	...	...

SPECIAL CLASSES OF ACCIDENTAL DEATHS BY COUNTIES

(Included also under the numbers

ONTARIO,

A. Accidents in mines and quarries	37	..	..	..	...	...	10	..	..	...	...	...	...	..	..	...	...	..	..	...	...	2	...	...
B. Accidents caused by machines	24	..	2	..	1	...	..	..	..	...	...	...	...	..	..	...	...	..	1	...	3	..	1	...
C. Railway accidents	40	..	2	..	...	1	2	..	1	...	...	...	...	1	..	...	...	..	1	2	...	1	...	...
D. Street-car accidents	3	..	..	..	...	...	..	..	..	...	...	1	...	..	..	...	...	..	..	...	...	..	...	...
E. Automobile and motorcycle accidents	288	..	1	2	2	2	4	7	..	9	4	22	4	2	1	12	5	1	8	4	4	3	13	6
F. Other land transportation	22	..	..	..	2	...	..	..	..	...	...	...	1	..	..	1	...	..	..	...	2	..	1	...
G. Water transportation	71	..	5	2	...	4	4	..	..	1	1	1	2	..	..	...	...	..	1	...	...	2	4	...
H. Air transportation	7	..	..	..	...	...	1	1	..	...	...	1	...	..	..	...	...	..	..	...	...	1	...	...

CITIES, TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Timiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
1	...	1	..	1	...	..	..	...	1	...	...	1	..	...	..	..	...	17	...	..	1	..	..	4	1	..	1	...	...	...	...	180
...	...	..	..	..	1	1	..	...	2	...	1	..	..	...	1	..	...	..	...	..	...	..	1	..	2	..	...	...	...	...	2	181
...	...	..	..	..	...	..	1	1	1	...	2	1	1	...	..	..	...	2	1	..	1	1	1	1	2	..	...	1	1	3	5	182
1	2	..	6	4	3	6	13	3	4	5	2	5	..	...	5	..	1	1	...	..	7	4	18	9	8	2	1	7	2	4	13	183
3	...	..	1	..	...	..	1	...	...	...	...	2	..	1	..	..	...	..	1	..	5	..	2	..	..	..	...	...	...	...	...	184
...	...	..	..	..	...	..	1	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	...	185
8	12	2	12	..	24	8	12	17	9	12	9	11	6	10	8	..	13	2	9	..	17	6	34	21	16	5	7	10	21	19	61	186
...	...	..	..	..	2	..	..	1	...	...	1	..	1	1	..	..	...	1	...	..	1	..	..	..	..	..	1	...	2	...	...	188
...	...	..	..	..	...	..	1	...	1	...	...	..	..	...	..	..	...	1	...	..	2	..	..	..	..	..	...	...	...	...	...	190
...	...	..	..	1	...	..	..	...	...	...	...	..	..	...	..	..	1	..	...	..	...	..	..	..	1	..	...	...	...	1	6	191
...	...	..	..	..	...	1	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	1	..	1	...	...	...	...	...	192
...	1	..	..	..	1	..	..	...	...	...	...	1	..	...	..	..	...	..	...	..	3	..	..	..	..	1	1	...	...	1	...	193
...	2	..	..	..	...	1	1	...	1	1	...	1	..	1	..	..	...	..	...	1	2	..	3	..	1	..	...	...	...	...	3	194
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	1	...	..	..	..	..	..	...	...	...	...	...	194A
...	2	..	..	..	...	1	1	...	1	1	...	1	..	1	..	..	...	..	...	..	2	..	3	..	1	..	...	...	...	...	3	194B
...	...	..	..	..	...	..	..	...	...	1	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	2	...	...	...	195
...	...	..	..	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	1	..	...	...	...	...	...	198
1	...	..	..	..	...	..	..	...	...	1	2	1	1	...	..	..	1	1	...	..	2	2	4	2	..	..	1	...	1	...	5	
1	...	..	..	..	...	..	..	...	...	1	1	1	1	...	..	..	1	..	...	..	1	2	1	..	..	..	1	...	...	...	3	199
...	...	..	..	..	...	..	..	...	...	...	1	..	..	...	..	..	...	1	...	..	1	..	3	2	..	..	...	...	1	...	2	200

(EXCLUSIVE OF CITIES AND TOWNS OF 5,000 AND OVER)

of the International List above)

1938

1	...	..	..	..	...	..	..	...	...	...	...	1	..	...	..	..	...	..	...	..	...	1	17	3	2	..	...	...	...	...	...	A
...	...	..	..	..	...	1	2	...	1	...	...	2	..	1	..	..	...	..	1	..	...	..	2	1	1	2	...	1	...	...	1	B
1	1	..	2	..	...	..	1	...	...	3	...	..	1	...	..	..	...	..	2	..	...	..	5	8	..	..	1	1	...	2	1	C
...	...	..	1	..	...	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	...	..	..	..	..	..	...	...	...	...	1	D
1	3	2	5	..	13	5	7	9	5	5	5	5	3	4	2	..	4	1	3	..	8	2	6	4	9	..	4	4	5	13	35	E
1	...	..	..	..	2	1	3	1	...	...	...	..	..	1	..	..	2	..	...	..	...	..	..	1	1	1	...	...	1	...	...	F
...	...	..	2	3	1	1	7	...	2	2	...	..	..	...	1	..	...	..	...	..	2	..	11	4	3	1	...	1	1	1	1	G
...	...	..	..	..	1	..	..	...	...	...	...	..	..	...	..	..	...	..	...	..	1	..	..	..	..	..	...	1	...	...	...	H

TABLE 40—CAUSES OF DEATH FOR TOWNS AND VILLAGES OF

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Eastview	Fort Erie	Fort Frances
DEATHS—ALL CAUSES. **Total**	**2,393**	**126**	**79**	**197**	**95**	**112**	**31**	**62**	**50**
CLASS I.—INFECTIOUS AND PARASITIC DISEASES									
Total	134	3	5	6	2	....	2	2	5
1. Typhoid fever	2	1	....	....	....	....	....	....	1
2. Paratyphoid fever	1	....	....	....	....	....	....	....	1
7. Measles	3	....	....	....	....	....	....	....	....
8. Scarlet fever	1	....	....	....	....	....	....	....	....
9. Whooping-cough	3	....	....	....	....	....	....	....	1
11. Influenza	42	....	2	2	1	....	....	1	....
11B. With bronchitis	1	....	....	....	....	....	....	....	....
11C. With pneumonia	29	....	....	1	....	....	....	1	....
11E. With intestinal complications	5	....	....	....	....	....	....	....	....
11F. With other causes	7	....	2	1	1	....	....	....	....
13. Dysentery	2	....	....	1	....	....	....	....	....
15. Erysipelas	2	....	1	....	....	....	....	....	....
16. Poliomyelitis and polioencephalitis (acute)	1	....	....	....	....	....	....	....	....
17. Lethargic or epidemic encephalitis	2	....	....	....	....	....	....	....	....
18. Epidemic cerebrospinal meningitis	1	1	....	....	....	....	....	....	....
22. Tetanus	1	....	....	1	....	....	....	....	....
23–32. Tuberculosis	65	1	2	2	....	....	2	1	2
23. Tuberculosis of the respiratory system	55	1	2	1	....	....	2	1	2
24. Tuberculosis of the meninges and central nervous system	5	....	....	....	....	....	....	....	....
25. Tuberculosis of the intestines and peritoneum	2	....	....	....	....	....	....	....	....
26. Tuberculosis of the vertebral column	1	....	....	....	....	....	....	....	....
27. Tuberculosis of the bones and joints (vertebral column excepted)	2	....	....	1	....	....	....	....	....
27B. Of joints	2	....	....	1	....	....	....	....	....
34. Syphilis	4	....	....	....	....	....	....	....	....
36. Purulent infection, septicaemia (non-puerperal)	2	....	....	....	....	....	....	....	....
38. Malaria	2	....	....	....	1	....	....	....	....
CLASS II.—CANCER AND OTHER TUMOURS									
Total	279	18	6	29	6	18	2	4	4
45–53. Cancer and other malignant tumours	257	15	6	27	5	17	2	3	4
45. Cancer of the buccal cavity and pharynx	7	....	1	1	....	....	....	....	....
46. Cancer of the digestive tract and peritoneum	132	7	2	12	3	9	1	1	4
46A. Of the oesophagus	4	....	....	1	....	....	....	....	....
46B. Of the stomach and duodenum	47	4	1	3	1	1	1	1	3
46C. Of the rectum	16	1	....	2	1	3	....	....	....
46D. Of the liver and biliary ducts	19	1	....	4	1	....	....	....	....
46E. Of the pancreas	5	....	....	....	....	1	....	....	....
46G. Of other organs	41	1	1	2	....	4	....	....	1
47. Cancer of the respiratory organs	6	....	....	....	....	....	....	....	....
47A. Of the larynx	2	....	....	....	....	....	....	....	....
47B. Of the lung	4	....	....	....	....	....	....	....	....
48. Cancer of the uterus	14	3	....	2	....	1	....	....	....
48A. Of the uterus	10	2	....	1	....	....	....	....	....
48B. Of the cervix uteri	4	1	....	1	....	1	....	....	....
49. Cancer of other female genital organs	10	1	....	1	....	....	....	....	....
50. Cancer of the breast	30	2	....	2	1	4	....	....	....
51. Cancer of the male genito-urinary organs	27	....	2	4	....	2	....	2	....
51A. Of the bladder	6	....	....	1	....	....	....	1	....
51B. Of the kidney	2	....	....	....	....	....	....	....	....
51C. Of the prostate gland	19	....	2	3	....	2	....	1	....
52. Cancer of the skin	2	....	....	....	1	....	....	....	....
53. Cancer of other or unspecified organs	29	2	1	5	....	1	1	....	....
53A. Of the eye and orbit	1	....	....	....	....	....	....	....	....
53C. Of the glandular system	9	1	1	1	....	....	1	....	....
53D. Of the female urinary organs	6	....	....	....	....	....	....	....	....
53E. Of the bones and joints	3	....	....	1	....	....	....	....	....
53F. Of the brain	3	....	....	2	....	....	....	....	....
53G. Of the spine and spinal cord	2	....	....	....	....	1	....	....	....
53I. Of the abdomen	2	....	....	1	....	....	....	....	....
53J. Of other specified organs	2	1	....	....	....	....	....	....	....
53K. Multiple cancer	1	....	....	....	....	....	....	....	....
54. Non-malignant tumours	17	3	....	1	1	1	....	1	....
54A. Of the ovary	1	....	....	....	....	....	....	....	....
54B. Of the uterus	5	1	....	....	....	1	....	1	....
54D. Of the brain	2	....	....	....	1	....	....	....	....

5,000 TO 10,000 POPULATION IN THE PROVINCE OF ONTARIO, 1938

Hawkesbury	Ingersoll	Kenora	Leamington	Lindsay	Midland	Mimico	New Toronto	Orillia	Port Colborne	Preston	Renfrew	Riverside	Simcoe	Smith's Falls	Swansea	Thorold	Trenton	Waterloo	Weston	Whitby	
68	87	89	80	150	95	25	115	166	27	36	72	20	122	114	30	49	47	61	32	156	
8	3	17	5	10	2	1	20	4	2	2	3	1	8	13	1	1	....	2	....	6	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2
....	....	....	1	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	7
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	8
....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	9
1	2	4	2	4	1	1	....	4	....	1	1	....	5	5	1	1	....	1	....	2	11
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	11B
1	2	3	1	1	1	1	....	2	....	1	....	....	5	5	....	1	....	1	....	2	11C
....	....	....	1	3	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	11E
....	....	1	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	11F
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	13
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	15
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	16
....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	17
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	18
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	22
6	....	9	1	5	1	....	19	....	2	1	2	....	1	5	....	....	....	....	....	3	23–32
5	....	4	1	5	....	....	19	....	1	1	2	....	....	5	....	....	....	....	....	3	23
1	....	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	24
....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	25
....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	26
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	27
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	27B
....	....	....	1	....	....	....	1	....	....	....	....	....	1	1	....	....	....	....	....	....	34
1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	36
....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	38
5	11	6	8	18	11	4	10	18	5	7	9	1	16	16	9	4	6	7	6	15	
4	10	4	8	17	11	3	9	17	5	7	9	1	13	14	9	4	6	7	5	15	45–53
....	....	....	....	....	1	....	....	....	....	....	....	....	2	1	....	....	....	....	....	1	45
3	6	3	4	11	8	2	3	10	1	6	4	1	5	8	1	2	2	2	3	8	46
....	....	....	....	2	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	46A
1	2	....	3	2	3	1	1	4	....	1	....	....	3	3	....	1	1	1	1	4	46B
....	1	....	....	....	....	1	....	2	....	....	1	....	1	1	....	1	....	....	....	1	46C
1	....	1	....	4	2	....	....	3	....	....	....	....	....	1	....	....	....	....	1	....	46D
....	....	1	....	....	....	....	1	....	....	1	....	....	....	1	....	....	....	....	....	....	46E
1	3	1	1	3	3	....	1	1	1	3	3	1	1	2	1	....	1	1	1	3	46G
1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	2	....	....	....	....	1	47
....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	47A
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	1	47B
....	....	1	....	....	....	....	....	....	....	....	1	....	1	....	1	....	3	1	....	....	48
....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	3	1	....	....	48A
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	48B
....	....	....	....	1	....	....	1	1	....	....	....	....	2	1	1	....	1	....	....	....	49
....	1	....	....	....	....	1	2	1	....	1	3	....	1	2	3	1	....	2	....	3	50
....	....	....	1	2	1	....	2	2	2	....	1	....	1	1	....	....	....	2	1	1	51
....	....	....	....	....	....	....	1	1	....	....	....	....	1	1	....	....	....	....	....	....	51A
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	51B
....	....	....	1	2	....	....	1	1	2	....	1	....	....	....	....	....	....	1	1	1	51C
....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	52
....	2	....	2	3	1	....	1	3	2	....	....	....	1	....	1	1	....	....	1	1	53
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	53A
....	1	....	1	1	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	53C
....	....	....	1	1	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....	1	53D
....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	53E
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	53F
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	53G
....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	53I
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	53J
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	53K
1	1	2	....	1	....	....	1	1	....	....	....	....	3	....	....	....	....	....	....	....	54
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	54A
....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	54B
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	54D

TABLE 40—CAUSES OF DEATH FOR TOWNS AND VILLAGES OF

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Eastview	Fort Erie	Fort Frances
54E. Of the thyroid gland	5	2	....	....	....	....	....	....	....
54F. Of the prostate gland	1	....	....	....	....	....	....	....	....
54G. Of other or unspecified sites	3	....	....	1	....	....	....	....	....
55. Tumours, nature not specified	5	....	....	1	....	....	....	....	....
55D. Of the brain	2	....	....	....	....	....	....	....	....
55G. Of other or unspecified sites	3	....	....	1	....	....	....	....	....
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES									
Total	60	6	3	5	4	2	1	2	1
56. Acute rheumatic fever	6	....	1	....	....	....	....	....	....
59. Diabetes mellitus	29	4	....	3	1	1	1	2	1
63. Rickets	2	....	....	1	....	....	....	....	....
65. Diseases of the pituitary gland	1	....	1	....	....	....	....	....	....
66. Diseases of the thyroid and parathyroid glands	15	1	1	1	2	....	....	....	....
66A. Simple goitre	1	....	....	....	....	....	....	....	....
66B. Exophthalmic goitre	12	1	1	1	2	....	....	....	....
66D. Tetany	2	....	....	....	....	....	....	....	....
67. Diseases of the thymus gland	5	....	....	....	1	1	....	....	....
69. Other general diseases	2	1	....	....	....	....	....	....	....
69C. Others under this title	2	1	....	....	....	....	....	....	....
CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS									
Total	31	3	2	1	2	2	....	....	....
70. Haemorrhagic conditions	1	....	....	....	1	....	....	....	....
70B. Haemophilia	1	....	....	....	1	....	....	....	....
71. Anaemia	25	3	2	1	1	1	....	....	....
71A. Pernicious anaemia	20	3	1	1	1	1	....	....	....
71B. Others under this title	5	....	1	....	....	....	....	....	....
72. Leukaemia and aleukaemia	4	....	....	....	....	....	....	....	....
72A. Leukaemia	3	....	....	....	....	....	....	....	....
72B. Aleukaemia (Hodgkin's disease)	1	....	....	....	....	....	....	....	....
73. Diseases of the spleen	1	....	....	....	....	1	....	....	....
CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS									
Total	2	....	....	....	....	....	....	....	....
75. Alcoholism	2	....	....	....	....	....	....	....	....
75B. Other alcoholic intoxications	2	....	....	....	....	....	....	....	....
CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE									
Total	140	1	7	3	6	5	3	3	2
78. Encephalitis (non-epidemic)	2	....	....	....	....	....	....	....	....
79. Simple meningitis	1	....	....	....	....	....	1	....	....
80. Progressive locomotor ataxia (tabes dorsalis)	1	....	....	....	....	....	....	....	....
81. Other diseases of the spinal cord	8	....	....	....	....	1	....	1	....
82. Cerebral haemorrhage, cerebral embolism and thrombosis	44	....	5	2	5	1	....	1	2
82A. Cerebral haemorrhage	38	....	4	1	5	1	....	1	2
82B. Cerebral embolism and thrombosis	3	....	1	....	....	....	....	....	....
82D. Hemiplegia and other paralysis, cause not specified	3	....	....	1	....	....	....	....	....
83. General paralysis of the insane	10	....	....	....	....	....	....	1	....
84. Dementia praecox and other psychoses	52	....	....	....	1	1	....	....	....
84A. Dementia praecox	45	....	....	....	1	....	....	....	....
84B. Other psychoses	7	....	....	....	....	1	....	....	....
85. Epilepsy	6	....	....	....	....	1	1	....	....
86. Convulsions (under 5 years of age)	1	1	....	....	....	....	....	....	....
87. Other diseases of the nervous system	13	....	2	1	....	1	....	....	....
87B. Neuralgia and neuritis	1	....	1	....	....	....	....	....	....
87C. Paralysis agitans	6	....	1	1	....	1	....	....	....

5,000 TO 10,000 POPULATION IN THE PROVINCE OF ONTARIO, 1938—Continued

Hawkesbury	Ingersoll	Kenora	Leamington	Lindsay	Midland	Mimico	New Toronto	Orillia	Port Colborne	Preston	Renfrew	Riverside	Simcoe	Smith's Falls	Swansea	Thorold	Trenton	Waterloo	Weston	Whitby	
....	1	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	54E
....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	54F
....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	54G
....	....	....	....	....	....	1	....	....	....	....	....	....	....	2	....	....	....	....	1	....	55
....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	55D
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	55G
1	4	1	....	2	4	1	....	6	....	....	2	2	4	2	....	3	....	1	1	2	
....	1	....	....	....	1	1	....	1	....	....	1	....	....	....	....	....	....	....	....	....	56
1	1	1	....	2	1	....	....	2	....	....	....	....	3	1	....	1	....	1	1	1	59
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	63
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	65
....	2	....	....	....	1	....	....	1	....	....	1	1	1	....	....	2	....	....	....	1	66
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	66A
....	2	....	....	....	1	....	....	1	....	....	1	1	....	....	....	....	....	....	....	1	66B
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	66D
....	....	....	....	....	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	67
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	69
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	69C
2	2	....	....	3	1	....	....	2	....	....	1	....	1	6	2	....	....	1	....	....	.
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	70
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	70B
2	1	....	....	3	1	....	....	2	....	....	1	....	....	5	1	....	....	1	....	....	71
1	1	....	....	2	1	....	....	2	....	....	1	....	....	5	....	....	....	....	....	....	71A
1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	71B
....	1	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	72
....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	72A
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	72B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	73
....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	75
....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	75B
2	3	4	4	6	3	....	34	5	....	....	....	1	4	5	....	2	2	1	2	32	
1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	78
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	79
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	80
....	....	1	1	1	1	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	81
1	2	1	3	3	1	....	1	3	....	....	....	....	4	1	....	1	2	....	2	3	82
1	2	1	3	3	1	....	1	3	....	....	....	....	3	....	....	1	1	....	2	2	82A
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	82B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	82D
....	....	....	....	....	....	....	5	....	....	....	....	....	....	....	....	....	....	....	....	4	83
....	....	1	....	....	....	....	26	1	....	....	....	....	....	....	....	....	....	....	....	22	84
....	....	....	....	....	....	....	25	....	....	....	....	....	....	....	....	....	....	....	....	19	84A
....	....	1	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	3	84B
....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	85
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	86
....	....	....	....	....	1	....	2	....	....	....	....	1	....	3	....	1	....	....	....	1	87
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	87B
....	....	....	....	....	....	....	1	....	....	....	....	....	....	2	....	....	....	....	....	....	87C

TABLE 40—CAUSES OF DEATH FOR TOWNS AND VILLAGES OF

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Eastview	Fort Erie	Fort Frances
87D. Sclerosis (other than of the spinal cord)	3	....	....	....	....	....	....	....	....
87E. Others under this title	3	....	....	....	....	....	....	....	....
89. Diseases of the ear and mastoid process	2	....	....	....	....	....	1	....	....
89A. Otitis	1	....	....	....	....	....	1	....	....
89B. Diseases of the mastoid process	1	....	....	....	....	....	....	....	....
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM									
Total	782	52	27	67	39	36	13	25	10
90–95. Diseases of the heart	454	30	18	29	27	22	9	14	5
91. Acute endocarditis	6	....	....	1	....	1	....	....	....
91A. Endocarditis, specified as acute	2	....	....	1	....	....	....	....	....
91B. Endocarditis, unspecified (under 45 years of age)	4	....	....	....	....	1	....	....	....
92. Chronic endocarditis, valvular diseases	67	5	6	2	2	3	4	1	2
92A. Endocarditis, specified as chronic, and other valvular diseases	54	4	6	....	2	2	3	1	1
92B. Endocarditis, unspecified (45 years and over)	13	1	....	2	....	1	1	....	1
93. Diseases of the myocardium	140	6	4	15	11	4	1	8	2
93A. Acute myocarditis	8	1	....	....	....	....	....	1	....
93B. Myocarditis, unspecified (under 45 years of age)	3	....	....	....	....	1	....	....	....
93C. Chronic myocarditis and myocardial degeneration	79	5	2	13	9	1	....	6	....
93D. Myocarditis, unspecified (45 years and over)	50	....	2	2	2	2	1	1	2
94. Diseases of the coronary arteries and angina pectoris	223	17	8	11	14	14	3	4	1
94A. Diseases of the coronary arteries	8	....	....	....	2	2	....	....	....
94B. Embolism and thrombosis of the coronary arteries	189	16	7	9	7	11	2	4	1
94C. Angina pectoris	26	1	1	2	5	1	1	....	....
95. Other diseases of the heart	18	2	....	....	....	....	1	1	....
95A. Functional diseases of the heart	5	....	....	....	....	....	1	....	....
95B. Other and unspecified	13	2	....	....	....	....	....	1	....
96. Aneurysm (except of the heart)	2	....	....	....	....	....	....	....	....
97. Arteriosclerosis (of coronary arteries excepted)	283	21	8	32	11	13	2	10	4
98. Gangrene	4	....	....	2	....	....	....	....	....
99. Other diseases of the arteries	2	....	....	1	....	....	....	....	....
100. Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	4	....	1	1	....	....	....	....	....
101. Diseases of the lymphatic system (lymphangitis, etc.)	1	....	....	....	....	....	....	....	....
102. Idiopathic abnormalities of blood pressure	32	1	....	2	1	1	2	1	1
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM									
Total	191	9	3	13	10	7	1	2	4
104. Diseases of the nasal fossae and annexa	2	....	....	....	....	....	....	....	....
105. Diseases of the larynx	2	....	....	....	....	....	....	....	....
105A. Croup	1	....	....	....	....	....	....	....	....
105B. Other diseases of the larynx	1	....	....	....	....	....	....	....	....
106. Bronchitis	5	....	....	....	1	....	....	....	....
106A. Acute	2	....	....	....	1	....	....	....	....
106B. Chronic	3	....	....	....	....	....	....	....	....
107. Bronchopneumonia	86	5	1	7	2	2	....	1	....
107A. Bronchopneumonia	86	5	1	7	2	2	....	1	....
108. Lobar pneumonia	56	2	2	3	5	1	1	....	2
109. Pneumonia, unspecified	20	....	....	3	1	3	....	1	....
110. Pleurisy	3	....	....	....	....	1	....	....	1
111. Congestion and haemorrhagic infarct of the lung, etc.	7	2	....	....	1	....	....	....	....
111B. Others under this title	7	2	....	....	1	....	....	....	....
112. Asthma	9	....	....	....	....	....	....	....	1
114. Other diseases of the respiratory system (tuberculosis excepted)	1	....	....	....	....	....	....	....	....
114C. Others under this title	1	....	....	....	....	....	....	....	....
CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM.									
Total	164	8	5	14	8	13	2	5	6
115. Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations)	10	1	....	....	....	2	....	....	1
115A. Diseases of the buccal cavity and annexa	4	....	....	....	....	....	....	....	1
115B. Diseases of the tonsils	3	1	....	....	....	....	....	....	....
115C. Others under this title	3	....	....	....	....	2	....	....	....
117. Ulcer of the stomach or duodenum	24	3	1	....	1	3	....	....	1

5,000 TO 10,000 POPULATION IN THE PROVINCE OF ONTARIO, 1938—Continued

Hawkesbury	Ingersoll	Kenora	Leamington	Lindsay	Midland	Mimico	New Toronto	Orillia	Port Colborne	Preston	Renfrew	Riverside	Simcoe	Smith's Falls	Swansea	Thorold	Trenton	Waterloo	Weston	Whitby	
....	....	....	....	....	1	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	87D
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	1	87E
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	89
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	89A
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	89B
11	27	19	32	48	28	13	21	46	9	15	30	5	23	32	15	20	19	32	16	52	
8	15	13	19	28	18	8	15	24	7	10	14	3	14	21	8	11	8	16	10	30	90–95
....	....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	91
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	91A
....	....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	91B
3	1	3	....	6	3	1	1	7	....	1	5	1	....	7	....	....	....	1	....	2	92
2	1	3	....	5	3	1	....	7	....	1	2	1	....	6	....	....	....	1	....	2	92A
1	....	....	....	1	....	....	1	....	....	....	3	....	....	1	....	....	....	....	....	....	92B
2	11	2	7	9	2	....	4	7	1	1	3	....	6	2	....	4	3	6	1	18	93
....	....	....	....	....	....	....	1	....	....	1	....	....	....	1	....	1	1	....	....	1	93A
....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	93B
1	5	....	2	5	1	....	2	1	1	....	2	....	3	1	....	....	2	1	1	15	93C
1	6	1	4	4	1	....	1	6	....	....	1	....	3	....	....	3	....	5	....	2	93D
3	3	7	11	9	12	6	9	9	6	8	4	2	7	11	8	7	4	7	8	10	94
....	....	....	....	1	....	....	....	....	....	1	....	....	....	2	....	....	....	....	....	....	94A
2	3	5	9	7	12	6	9	8	6	5	4	2	7	6	8	6	4	6	7	10	94B
1	....	2	2	1	....	....	....	1	....	2	....	....	....	3	....	1	....	1	1	....	94C
....	....	....	1	4	1	....	....	1	....	....	2	....	1	1	....	....	1	1	1	....	95
....	....	....	1	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	95A
....	....	....	....	3	1	....	....	....	....	....	1	....	1	1	....	....	1	1	1	....	95B
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	96
3	10	5	12	14	8	4	6	17	2	5	15	1	7	11	6	8	7	16	4	21	97
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	98
....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	99
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	100
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	101
....	2	....	1	5	2	1	....	3	....	....	1	1	1	....	....	1	3	....	2	....	102
6	9	6	3	16	6	1	11	17	3	3	9	2	14	2	1	4	6	3	3	17	
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	104
1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	105
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	105A
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	105B
....	2	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	106
....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	106A
....	2	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	106B
4	1	3	1	8	2	....	8	4	2	1	5	....	9	1	1	2	3	1	1	11	107
4	1	3	1	8	2	....	8	4	2	1	5	....	9	1	1	2	3	1	1	11	107A
1	2	1	2	4	....	....	1	8	1	1	4	2	4	1	....	2	1	1	....	4	108
....	2	1	....	2	1	....	2	2	....	....	....	....	....	....	....	....	1	1	....	....	109
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	110
....	....	....	....	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	111
....	....	....	....	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	111B
....	1	....	....	....	....	1	....	1	....	1	....	....	1	....	....	....	....	....	1	2	112
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	114
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	114C
5	6	8	2	9	10	1	4	15	2	3	8	....	11	6	....	2	2	5	....	4	
....	....	1	....	....	1	....	....	2	....	....	1	....	....	....	....	....	....	....	....	1	115
....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	115A
....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	115B
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	115C
....	....	2	....	2	3	1	....	5	....	....	....	....	1	1	....	....	....	....	....	....	117

TABLE 40—CAUSES OF DEATH FOR TOWNS AND VILLAGES OF

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Eastview	Fort Erie	Fort Frances
117A. Ulcer of the stomach	10	1	....	....	....	2	....	....	1
117B. Ulcer of the duodenum	14	2	1	....	1	1	....	....	....
118. Other diseases of the stomach	3	....	....	....	....	....	....	....	....
119. Diarrhoea and enteritis (under 2 years of age)	24	....	....	2	1	1	1	....	2
120. Diarrhoea and enteritis (2 years and over)	11	1	1	....	....	....	1	1	....
120A. Diarrhoea and enteritis	9	1	1	....	....	....	1	1	....
120B. Ulceration of the intestines	2	....	....	....	....	....	....	....	....
121. Appendicitis	24	1	....	6	....	....	....	1	1
122. Hernia, intestinal obstruction	32	1	2	4	2	6	....	....	....
122A. Hernia	18	1	1	4	2	3	....	....	....
122B. Intestinal obstruction	14	....	1	....	....	3	....	....	....
123. Other diseases of the intestines	1	....	....	....	....	....	....	....	....
124. Cirrhosis of the liver	10	....	....	....	1	....	....	....	....
124B. Not specified as alcoholic	10	....	....	....	1	....	....	....	....
125. Other diseases of the liver	4	....	1	....	2	....	....	....	....
125B. Others under this title	4	....	1	....	2	....	....	....	....
126. Biliary calculi	7	1	....	1	1	1	....	....	1
127. Other diseases of the gall-bladder and biliary passages	9	....	....	....	....	....	....	3	....
128. Diseases of the pancreas	3	....	....	1	....	....	....	....	....
129. Peritonitis, cause not specified	2	....	....	....	....	....	....	....	....
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM									
Total	175	11	7	8	3	10	1	7	....
130. Acute nephritis (including unspecified, under 10 years of age)	3	....	....	1	....	....	....	....	....
131. Chronic nephritis	80	6	1	6	2	6	1	5	....
132. Nephritis, unspecified (10 years and over)	30	1	1	....	....	....	....	....	....
133. Other diseases of the kidneys and ureters	4	....	1	....	....	....	....	....	....
134. Calculi of the urinary passages	2	....	....	....	....	....	....	....	....
135. Diseases of the bladder (tumours excepted)	8	....	....	....	....	....	....	....	....
137. Diseases of the prostate	39	3	2	1	....	3	....	1	....
138. Diseases of the male genital organs (not specified as venereal)	1	....	1	....	....	....	....	....	....
139. Diseases of the female genital organs (not specified as venereal)	8	1	1	....	1	1	....	1	....
139A. Of the ovary, Fallopian tube and parametrium	5	....	....	....	1	1	....	1	....
139B. Of the uterus	3	1	1	....	....	....	....	....	....
CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE									
Total	26	....	....	5	3	1	....	1	....
140. Abortion with septic conditions	3	....	....	1	....	....	....	....	....
140A. Abortion	2	....	....	1	....	....	....	....	....
140B. Self-induced abortion	1	....	....	....	....	....	....	....	....
141. Abortion without mention of septic conditions (haemorrhage included)	1	....	....	....	....	1	....	....	....
141A. Abortion	1	....	....	....	....	1	....	....	....
142. Ectopic gestation	2	....	....	....	....	....	....	....	....
142A. With septic conditions	1	....	....	....	....	....	....	....	....
142B. Without mention of septic conditions	1	....	....	....	....	....	....	....	....
143. Other accidents of pregnancy (haemorrhage excluded)	1	....	....	....	....	....	....	....	....
144. Puerperal haemorrhage	3	....	....	....	1	....	....	....	....
144A. Placenta praevia	2	....	....	....	1	....	....	....	....
144B. Other haemorrhages	1	....	....	....	....	....	....	....	....
145. Puerperal septicaemia (not specified as due to abortion)	4	....	....	....	1	....	....	1	....
145A. Puerperal septicaemia and pyaemia	4	....	....	....	1	....	....	1	....
146. Puerperal albuminuria and eclampsia	4	....	....	1	....	....	....	....	....
147. Other toxaemias of pregnancy	1	....	....	1	....	....	....	....	....
148. Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)	6	....	....	2	....	....	....	....	....
148A. Phlegmasia alba dolens and thrombosis	2	....	....	....	....	....	....	....	....
148B. Embolism	3	....	....	1	....	....	....	....	....
148C. Sudden death	1	....	....	1	....	....	....	....	....
149. Other accidents of childbirth	1	....	....	....	1	....	....	....	....
149E. Others under this title	1	....	....	....	1	....	....	....	....
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE									
Total	8	....	....	....	....	....	....	....	....
151. Carbuncle	4	....	....	....	....	....	....	....	....
152. Cellulitis, acute abscess	2	....	....	....	....	....	....	....	....
153. Other diseases of the skin and annexa and of the cellular tissue	2	....	....	....	....	....	....	....	....

5,000 TO 10,000 POPULATION IN THE PROVINCE OF ONTARIO, 1938—Continued

Hawkesbury	Ingersoll	Kenora	Leamington	Lindsay	Midland	Mimico	New Toronto	Orillia	Port Colborne	Preston	Renfrew	Riverside	Simcoe	Smith's Falls	Swansea	Thorold	Trenton	Waterloo	Weston	Whitby	
....	....	....	....	2	3	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	117A
....	....	2	....	....	....	1	....	4	....	....	....	....	1	1	....	....	....	....	....	....	117B
1	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	118
2	1	1	....	1	1	....	....	....	1	....	1	....	6	....	....	....	1	2	....	....	119
....	1	....	....	2	....	....	2	....	....	....	....	....	1	1	....	....	....	....	....	....	120
....	1	....	....	2	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	120A
....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	120B
2	1	2	....	1	2	....	....	2	....	....	3	....	....	1	....	....	....	....	....	1	121
....	3	2	2	1	....	....	....	3	....	....	2	....	1	1	....	....	....	....	....	2	122
....	1	1	1	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	1	122A
....	2	1	1	....	....	....	....	2	....	....	1	....	1	1	....	....	....	....	....	1	122B
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	123
....	....	....	....	1	....	....	1	....	....	3	....	....	....	....	....	2	1	1	....	....	124
....	....	....	....	1	....	....	1	....	....	3	....	....	....	....	....	2	1	1	....	....	124B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	125
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	125B
....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	126
....	....	....	....	....	1	....	....	1	....	....	1	....	1	1	....	....	....	1	....	....	127
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	128
....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	129
6	8	2	10	9	8	2	2	21	....	2	3	2	10	16	....	9	6	4	1	7	
....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	130
5	1	2	4	3	2	1	1	6	....	2	....	1	4	7	....	7	3	2	1	1	131
....	6	....	5	2	1	1	....	4	....	....	1	....	1	3	....	2	....	....	....	2	132
....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	133
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	134
....	....	....	1	1	....	....	....	2	....	....	1	....	....	1	....	....	....	....	....	2	135
....	1	....	....	2	2	....	1	8	....	....	1	1	3	5	....	....	2	2	....	1	137
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	138
1	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	139
....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	139A
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	139B
1	3	4	1	1	2	....	....	2	....	....	....	....	1	1	....	....	....	....	....	....	
....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	140
....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	140A
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	140B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	141
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	141A
....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	142
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	142A
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	142B
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	143
....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	144
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	144A
....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	144B
....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	145
....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	145A
....	2	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	146
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	147
....	1	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	148
....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	148A
....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	148B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	148C
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	149
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	149E
....	1	1	....	....	1	....	....	1	....	1	1	....	2	....	....	....	....	....	....	....	
....	1	....	....	....	1	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	151
....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	152
....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	153

TABLE 40—CAUSES OF DEATH FOR TOWNS AND VILLAGES OF

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Eastview	Fort Erie	Fort Frances
CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION									
Total	4	1	....	....	....	....	....	....	....
154. Osteomyelitis	2	1	....	....	....	....	....	....	....
155. Other diseases of the bones (tuberculosis excepted)	1	....	....	....	....	....	....	....	....
156. Diseases of the joints and other organs of locomotion	1	....	....	....	....	....	....	....	....
156A. Of the joints (tuberuclosis and rheumatism excepted)	1	....	....	....	....	....	....	....	....
CLASS XIV.—CONGENITAL MALFORMATIONS									
Total	32	....	....	6	2	....	2	1	1
157. Congenital malformations (stillbirths excluded)	32	....	....	6	2	....	2	1	1
157A. Congenital hydrocephalus	3	....	....	....	....	....	1	....	....
157B. Spina bifida and meningocele	8	....	....	2	1	....	....	....	....
157C. Congenital malformations of the heart	12	....	....	4	....	....	....	1	1
157D. Monstrosities	2	....	....	....	1	....	....	....	....
157E. Others under this title	7	....	....	....	....	....	1	....	....
CLASS XV.—DISEASES OF EARLY INFANCY									
Total	114	3	6	9	3	6	4	2	4
158. Congenital debility	9	....	....	....	....	....	....	....	....
159. Premature birth	68	2	5	8	2	5	3	1	3
160. Injury at birth	26	....	1	1	1	1	1	1	1
160B. Without mention of caesarean operation	26	....	1	1	1	1	1	1	1
161. Other diseases peculiar to early infancy (under 3 months)	11	1	....	....	....	....	....	....	....
161A. Atelectasis	1	....	....	....	....	....	....	....	....
161B. Icterus of the new-born	3	....	....	....	....	....	....	....	....
161E. Others, including lack of care	7	1	....	....	....	....	....	....	....
CLASS XVI.—SENILITY									
Total	44	1	....	3	1	2	....	....	1
162. Senility	44	1	....	3	1	2	....	....	1
162A. With senile dementia (70 years and over)	30	1	....	1	....	2	....	....	....
162B. Without senile dementia (70 years and over)	14	....	....	2	1	....	....	....	1
CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS									
Total	205	10	8	28	6	10	....	7	12
163–171. Suicides	20	....	....	6	1	....	....	....	1
163. Suicide by solid or liquid poisons or by absorption of corrosive substances	4	....	....	2	....	....	....	....	....
164. Suicide by poisonous gas	1	....	....	1	....	....	....	....	....
165. Suicide by hanging or strangulation	1	....	....	....	....	....	....	....	....
166. Suicide by drowning	4	....	....	1	....	....	....	....	....
167. Suicide by firearms	4	....	....	....	1	....	....	....	....
168. Suicide by cutting or piercing instruments	3	....	....	1	....	....	....	....	1
169. Suicide by jumping from high places	3	....	....	1	....	....	....	....	....
173–175. Homicides	7	....	1	4	....	....	....	....	....
173. Homicide by firearms	2	....	1	....	....	....	....	....	....
175. Homicide by other means	5	....	....	4	....	....	....	....	....
176–198. Other violent deaths	178	10	7	18	5	10	....	7	11
178. Accidental absorption of toxic gases	1	....	....	....	....	....	....	....	....
179. Other acute accidental poisonings (except by gas)	1	....	....	....	....	....	....	....	....
180. Conflagration	4	....	....	1	....	....	....	....	1
181. Accidental burns (conflagration excepted)	9	....	....	1	1	2	....	....	2
182. Accidental mechanical suffocation	2	....	....	....	....	....	....	....	....
183. Accidental drowning	18	1	....	1	1	....	....	1	1
184. Accidental injury by firearms	5	....	....	....	....	....	....	1	1
185. Accidental injury by cutting or piercing instruments	1	....	....	....	....	....	....	....	....
186. Accidental injury by fall, crushing or landslide	124	6	7	14	2	7	....	5	5
188. Injuries by animals	7	2	....	1	....	....	....	....	1

5,000 TO 10,000 POPULATION IN THE PROVINCE OF ONTARIO, 1938—Continued

Hawkesbury	Ingersoll	Kenora	Leamington	Lindsay	Midland	Mimico	New Toronto	Orillia	Port Colborne	Preston	Renfrew	Riverside	Simcoe	Smith's Falls	Swansea	Thorold	Trenton	Waterloo	Weston	Whitby	
....	....	....	....	1	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	154
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	155
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	156
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	156A
....	1	1	3	1	5	1	....	1	1	....	....	....	1	2	....	....	1	1	1	....	
....	1	1	3	1	5	1	....	1	1	....	....	....	1	2	....	....	1	1	1	....	157
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	157A
....	....	....	1	1	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	157B
....	1	1	1	....	1	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	157C
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	157D
....	....	....	1	....	2	....	....	....	....	....	....	....	1	2	....	....	....	....	....	....	157E
15	1	7	4	10	7	....	1	14	2	1	4	....	4	3	....	2	2	....	....	....	
2	....	....	....	1	....	....	....	1	2	....	2	....	....	1	....	....	....	....	....	....	158
3	....	7	1	6	4	....	1	8	....	1	1	....	3	1	....	1	2	....	....	....	159
7	1	....	2	2	1	....	....	3	....	....	1	....	1	....	....	1	....	....	....	....	160
7	1	....	2	2	1	....	....	3	....	....	1	....	1	....	....	1	....	....	....	....	160B
3	....	....	1	1	2	....	....	2	....	....	....	....	....	1	....	....	....	....	....	....	161
....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161A
1	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	161B
2	....	....	....	1	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	161E
....	1	1	....	3	1	....	9	....	....	....	....	....	1	4	....	1	2	....	1	12	
....	1	1	....	3	1	....	9	....	....	....	....	....	1	4	....	1	2	....	1	12	162
....	....	....	....	2	....	....	9	....	....	....	....	....	1	2	....	....	....	....	1	11	162A
....	1	1	....	1	1	....	....	....	....	....	....	....	....	2	....	1	2	....	....	1	162B
6	7	10	8	13	5	1	3	13	3	2	2	6	22	5	2	1	1	4	1	9	
....	....	1	....	1	....	....	1	....	1	1	1	....	....	....	....	....	....	2	1	3	163–171
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	163
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	164
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	165
....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	1	166
....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	167
....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	168
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	169
....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	173–175
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	173
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	175
6	7	9	8	11	5	1	2	13	2	1	1	6	21	5	2	1	1	2	....	6	176–198
																					176
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	178
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	179
....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	180
....	....	....	....	....	1	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	181
....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	182
....	....	2	....	1	....	....	....	1	2	....	....	4	....	....	1	1	1	....	....	....	183
....	....	1	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	184
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	185
5	6	6	8	7	3	1	2	9	....	1	1	....	17	4	1	....	....	1	....	6	186
1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	188

TABLE 40—CAUSES OF DEATH FOR TOWNS AND VILLAGES OF

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Eastview	Fort Erie	Fort Frances
191. Excess heat	1	....	....	....	....	1	....	....	....
193. Accidents due to electric currents	1	....	....	....	....	....	....	....	....
194. Other accidents	4	1	....	....	1	....	....	....	....
194B. Others under this title	4	1	....	....	1	....	....	....	....
CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH									
Total	2	....	....	....	....	....	....	1	....
199. Sudden death	2	....	....	....	....	....	....	1	....

SPECIAL CLASSES OF ACCIDENTAL DEATHS FOR

(Included also under the numbers

ONTARIO,

B. Accidents caused by machines	2	....	....	....	....	....	....	....	....
C. Railway accidents	5	....	....	....	....	....	....	1	1
E. Automobile and motorcycle accidents	51	3	2	6	....	2	....	3	3
F. Other land transportation	4	....	1	....	....	1	....	....	....
G. Water transportation	3	....	....	....	1	....	....	....	....

5,000 TO 10,000 POPULATION IN THE PROVINCE OF ONTARIO, 1938—Continued

Hawkesbury	Ingersoll	Kenora	Leamington	Lindsay	Midland	Mimico	New Toronto	Orillia	Port Colborne	Preston	Renfrew	Riverside	Simcoe	Smith's Falls	Swansea	Thorold	Trenton	Waterloo	Weston	Whitby	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	191
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	193
....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	194
....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	194B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	199

TOWNS AND VILLAGES OF 5,000 TO 10,000 POPULATION

of the International List above)

1938

....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	B
....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	C
1	3	5	5	1	1	....	....	4	....	1	1	....	7	....	....	....	....	1	....	2	E
....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	F
....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	G

TABLE 41—CAUSES OF DEATH FOR CITIES, TOWNS AND VILLAGES

CAUSES OF DEATH	Total	Belleville	Brantford	Chatham	Cornwall	Forest Hill	Fort William	Galt	Guelph	Hamilton	Kingston	Kirkland Lake
DEATHS—ALL CAUSES. **Total**	18,783	248	416	333	205	34	213	189	220	1538	522	136
CLASS I.—INFECTIOUS AND PARASITIC DISEASES												
Total	986	14	19	17	17	1	36	2	7	59	32	6
1. Typhoid fever	17	....	....	....	....	....	....	....	....	4	....	....
2. Paratyphoid fever	3	....	....	....	....	....	....	....	....	....	....	....
5. Undulant fever	1	....	....	....	....	....	....	....	....	....	....	....
7. Measles	18	....	1	....	....	....	....	....	1	5	....	....
8. Scarlet fever	27	1	1	....	....	....	....	....	....	1	....	1
9. Whooping-cough	42	2	4	1	1	....	....	1	....	2	1	1
10. Diphtheria	9	1	....	....	....	....	....	....	....	....	....	....
11. Influenza	209	3	4	7	3	....	....	1	2	16	7	1
11A. Sole cause	9	....	1	....	....	....	....	....	....	1	....	....
11B. With bronchitis	10	....	....	....	....	....	....	....	....	....	....	....
11C. With pneumonia	107	....	2	5	3	....	....	....	2	9	3	1
11D. With other diseases of the respiratory system	10	....	....	....	....	....	....	....	....	2	....	....
11E. With intestinal complications	13	2	1	1	....	....	....	....	....	1	....	....
11F. With other causes	60	1	....	1	....	....	....	1	....	3	4	....
13. Dysentery	14	....	....	....	....	....	....	....	....	....	....	....
15. Erysipelas	22	....	2	....	1	....	....	....	1	2	....	....
16. Poliomyelitis and polioencephalitis (acute)	18	....	....	1	....	....	3	....	....	4	....	....
17. Lethargic or epidemic encephalitis	8	....	....	....	....	....	....	....	....	....	....	....
18. Epidemic cerebrospinal meningitis	10	....	....	....	....	....	....	....	....	2	....	....
22. Tetanus	9	....	1	1	....	....	....	....	....	1	....	....
23–32. Tuberculosis	430	4	3	4	10	1	29	....	2	14	17	2
23. Tuberculosis of the respiratory system	335	3	2	3	9	1	27	....	2	12	11	2
24. Tuberculosis of the meninges and central nervous system	39	....	....	....	1	....	....	....	....	....	1	....
25. Tuberculosis of the intestines and peritoneum	13	1	....	1	....	....	2	....	....	....	1	....
26. Tuberculosis of the vertebral column	10	....	....	....	....	....	....	....	....	1	....	....
27. Tuberculosis of the bones and joints (vertebral column excepted)	3	....	....	....	....	....	....	....	....	....	....	....
27A. Of bones	1	....	....	....	....	....	....	....	....	....	....	....
27B. Of joints	2	....	....	....	....	....	....	....	....	....	....	....
28. Tuberculosis of the skin and sub-cutaneous cellular tissue	1	....	....	....	....	....	....	....	....	....	....	....
29. Tuberculosis of the lymphatic system (bronchial, mesenteric and retroperitoneal glands excepted)	1	....	....	....	....	....	....	....	....	....	....	....
30. Tuberculosis of the genito-urinary system	13	....	1	....	....	....	....	....	....	....	1	....
31. Tuberculosis of other organs	4	....	....	....	....	....	....	....	....	....	1	....
32. Disseminated tuberculosis	11	....	....	....	....	....	....	....	....	1	2	....
32A. Acute	4	....	....	....	....	....	....	....	....	....	....	....
32B. Chronic	1	....	....	....	....	....	....	....	....	1	....	....
32C. Not specified	6	....	....	....	....	....	....	....	....	....	2	....
34. Syphilis	104	1	3	3	....	....	4	....	1	4	5	1
35. Gonococcus infection and other venereal diseases	4	1	....	....	....	....	....	....	....	....	....	....
36. Purulent infection, septicaemia (non-puerperal)	23	1	....	....	....	....	....	....	....	3	....	....
39. Other diseases due to protozoal parasites	2	....	....	....	1	....	....	....	....	....	....	....
41. Hydatid cysts	1	....	....	....	....	....	....	....	....	....	....	....
41A. Of the liver	1	....	....	....	....	....	....	....	....	....	....	....
43. Mycoses	3	....	....	....	....	....	....	....	....	....	....	....
44. Other infectious or parasitic diseases	12	....	....	....	1	....	....	....	....	1	2	....
44A. Chicken-pox	3	....	....	....	....	....	....	....	....	....	1	....
44C. Others under this title	9	....	....	....	1	....	....	....	....	1	1	....
CLASS II.—CANCER AND OTHER TUMOURS												
Total	2,782	27	60	40	25	5	34	30	33	212	95	9
45-53. Cancer and other malignant tumours	2,585	25	54	39	23	5	34	27	32	196	94	7
45. Cancer of the buccal cavity and pharynx	88	...	1	1	....	....	1	2	....	5	7	....
46. Cancer of the digestive tract and peritoneum	1,245	12	21	16	15	3	14	16	19	100	39	5
46A. Of the oesophagus	66	....	....	....	....	1	....	....	1	8	2	1
46B. Of the stomach and duodenum	436	3	6	5	4	....	4	7	6	26	13	1
46C. Of the rectum	149	....	3	2	2	....	....	....	3	15	2	1
46D. Of the liver and biliary ducts	145	4	1	3	3	....	2	2	2	9	5	....
46E. Of the pancreas	86	....	2	....	1	....	3	3	1	9	4	1
46F. Of the peritoneum	11	....	....	....	....	....	....	....	....	2	1	....
46G. Of other organs	352	5	9	6	5	2	5	4	6	31	12	1
47. Cancer of the respiratory organs	134	1	2	1	2	1	2	....	1	17	3	1

OF 10,000 POPULATION AND OVER—ONTARIO, 1938

Kitchener	London	Niagara Falls	North Bay	Oshawa	Ottawa	Owen Sound	Pembroke	Peterborough	Port Arthur	St. Catharines	St. Thomas	Sarnia	Sault Ste. Marie	Stratford	Sudbury	Timmins	Toronto	Welland	Windsor	Woodstock	
379	1106	233	170	199	1727	202	181	365	253	344	221	240	237	228	274	178	6947	154	878	213	
13	48	9	5	13	148	14	16	10	17	9	5	14	21	7	19	14	306	12	72	4	
1	....	....	....	....	3	....	....	....	1	....	....	....	....	....	1	....	2	2	3	....	1
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	2
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	5
....	2	....	....	3	....	....	....	....	....	....	....	1	....	....	1	....	....	....	4	....	7
....	....	....	....	1	2	....	....	2	....	2	1	....	2	....	1	....	11	1	....	....	8
1	2	....	....	1	1	2	2	....	....	....	....	....	1	....	....	....	14	1	4	....	9
....	....	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....	2	....	2	....	10
5	13	4	....	2	24	6	5	4	2	3	2	8	8	2	6	1	51	5	12	2	11
....	....	1	....	....	1	1	1	....	....	....	....	....	....	....	....	....	2	1	....	....	11A
....	....	....	....	1	1	2	....	....	....	....	....	1	....	....	....	....	5	....	....	....	11B
4	7	3	....	....	15	1	3	1	2	1	1	2	6	....	....	1	21	3	10	1	11C
1	1	....	....	....	....	....	....	2	....	1	....	....	....	....	1	....	1	....	....	1	11D
....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	....	3	1	....	....	11E
....	5	....	....	1	7	2	1	1	....	1	1	4	1	2	3	....	19	....	2	....	11F
....	1	....	....	....	1	2	....	....	....	....	....	....	....	1	....	2	6	....	1	....	13
....	....	1	1	....	3	....	....	1	....	....	....	....	....	1	1	....	6	....	1	1	15
....	....	....	....	....	....	....	....	....	4	....	....	....	....	....	....	....	4	....	2	....	16
....	3	1	....	....	....	1	....	1	....	....	....	....	....	....	1	....	1	....	....	....	17
....	1	1	1	....	1	....	....	....	....	....	....	....	....	....	1	....	2	....	1	....	18
....	2	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	2	....	....	....	22
5	18	2	1	4	86	2	8	2	7	3	2	4	10	2	6	7	143	1	30	1	23–32
2	11	1	....	3	74	1	5	2	4	1	1	4	8	1	5	3	110	1	25	1	23
2	3	1	1	1	7	....	1	....	1	....	1	....	....	....	1	3	12	....	3	....	24
....	1	....	....	....	2	....	....	....	....	....	....	....	1	....	....	1	3	....	....	....	25
....	1	....	....	....	2	....	....	....	....	....	....	....	1	....	....	....	4	....	1	....	26
....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	1	....	....	....	27
....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	27A
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	27B
....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	28
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	29
....	....	....	....	....	1	....	1	....	....	1	....	....	....	1	....	....	6	....	1	....	30
....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	31
1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	6	....	....	....	32
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....	32A
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	32B
....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	3	....	....	....	32C
....	4	....	....	2	17	1	....	....	3	1	....	....	....	1	1	3	42	1	6	....	34
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	35
....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	12	1	3	....	36
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	39
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	41
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	41A
....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	43
1	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	3	....	1	....	44
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	44A
1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....	44C
64	153	34	26	24	254	21	24	46	33	44	31	36	31	32	21	8	1163	16	117	34	
58	140	29	24	22	233	20	21	41	32	42	26	34	27	31	19	8	1086	14	111	31	45–53
1	5	....	1	....	13	....	....	3	1	....	1	1	1	1	1	1	39	....	1	1	45
30	74	11	11	12	103	12	13	22	19	26	11	18	11	14	10	3	511	6	50	18	46
1	1	....	....	....	6	....	....	3	3	2	....	....	....	....	....	....	36	....	1	....	46A
17	29	5	7	8	35	5	6	5	10	9	2	9	3	4	7	1	168	2	21	8	46B
2	12	....	2	....	15	2	1	4	....	1	....	4	2	1	....	....	63	....	10	2	46C
4	7	4	....	2	9	4	1	2	2	4	2	1	1	1	2	....	61	1	3	3	46D
....	5	2	1	1	6	....	1	....	1	1	1	1	....	....	1	....	39	1	1	....	46E
....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	6	....	....	....	46F
6	20	....	1	....	31	1	4	8	3	9	6	3	5	8	....	2	138	2	14	5	46G
1	5	1	2	1	9	1	....	....	2	3	....	1	....	2	....	....	69	....	6	....	47

TABLE 41—CAUSES OF DEATH FOR CITIES, TOWNS AND VILLAGES

CAUSES OF DEATH	Total	Belleville	Brantford	Chatham	Cornwall	Forest Hill	Fort William	Galt	Guelph	Hamilton	Kingston	Kirkland Lake
47A. Of the larynx	33	....	....	....	1	....	....	....	....	5	....	....
47B. Of the lung	74	1	1	1	....	1	1	....	1	11	1	1
47C. Of the mediastinum	11	....	....	....	1	....	....	....	....	....	2	....
47D. Of other organs of the respiratory system	16	....	1	....	....	....	1	....	....	1	....	....
48. Cancer of the uterus	245	2	11	6	1	....	5	....	6	18	8	....
48A. Of the uterus	138	2	9	6	....	....	3	....	6	10	4	....
48B Of the cervix uteri	107	....	2	....	1	....	2	....	....	8	4	....
49. Cancer of other female genital organs	89	....	1	4	1	....	....	1	1	10	2	....
50. Cancer of the breast	284	4	4	2	....	....	6	6	2	14	11	....
51. Cancer of the male genito-urinary organs	228	6	6	6	2	....	1	1	3	16	9	....
51A. Of the bladder	63	4	1	1	1	....	....	1	2	6	1	....
51B. Of the kidney	15	....	1	....	....	....	....	....	....	1	1	....
51C. Of the prostate gland	143	2	4	5	1	....	1	....	1	9	7	....
51D. Of the testicles and annexa	7	....	....	....	....	....	....	....	....	....	....	....
52. Cancer of the skin	34	....	1	....	1	....	....	1	....	2	2	1
53. Cancer of other or unspecified organs	238	....	7	3	1	1	5	....	....	14	13	....
53A. Of the eye and orbit	7	....	....	1	....	....	....	....	....	....	1	....
53C. Of the glandular system	38	....	2	....	....	....	1	....	....	....	3	....
53D. Of the female urinary organs	36	....	2	1	....	....	2	....	....	4	1	....
53E. Of the bones and joints	25	....	....	....	....	....	1	....	....	1	....	....
53F. Of the brain	62	....	1	....	....	1	....	....	....	3	5	....
53G. Of the spine and spinal cord	10	....	....	....	....	....	....	....	....	....	....	....
53H. Of the neck	4	....	....	1	....	....	....	....	....	....	....	....
53I. Of the abdomen	20	....	....	....	....	....	....	....	....	2	1	....
53J. Of other specified organs	17	....	2	....	....	....	....	....	....	2	1	....
53K. Multiple cancer	11	....	....	....	....	....	1	....	....	1	1	....
53M. Of unspecified or unknown location	8	....	....	....	1	....	....	....	....	1	....	....
54. Non-malignant tumours	163	2	6	1	2	....	....	2	1	8	1	1
54A. Of the ovary	28	1	2	1	2	....	....	....	1	1	....	1
54B. Of the uterus	25	1	1	....	....	....	....	1	....	1	....	....
54D. Of the brain	27	....	2	....	....	....	....	....	....	1	....	....
54E. Of the thyroid gland	29	....	....	....	....	....	....	....	....	....	1	....
54F. Of the prostate gland	23	....	....	....	....	....	....	....	....	....	....	....
54G. Of other or unspecified sites	31	....	1	....	....	....	....	1	....	5	....	....
55. Tumours, nature not specified	34	....	....	....	....	....	....	1	....	8	....	1
55B. Of the uterus	1	....	....	....	....	....	....	....	....	....	....	....
55D. Of the brain	18	....	....	....	....	....	....	1	....	3	....	1
55G. Of other or unspecified sites	15	....	....	....	....	....	....	....	....	5	....	....
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES												
Total	624	5	9	8	8	....	1	8	6	56	13	7
56. Acute rheumatic fever	101	2	1	....	5	....	....	....	1	13	4	....
57. Chronic rheumatism, osteo-arthritis	20	....	1	....	....	....	....	1	....	....	....	....
59. Diabetes mellitus	341	3	4	5	2	....	....	3	4	27	6	1
61. Beriberi	1	....	....	....	....	....	....	....	....	1	....	....
62. Pellagra	1	....	....	....	....	....	....	....	....	....	....	....
63. Rickets	3	....	....	....	....	....	....	....	....	....	....	1
64. Osteomalacia	1	....	....	....	....	....	....	....	....	....	....	....
65. Diseases of the pituitary gland	5	....	....	....	....	....	....	....	....	....	....	....
66. Diseases of the thyroid and parathyroid glands	101	....	3	....	1	....	1	3	....	14	3	....
66A. Simple gòitre	8	....	....	....	....	....	....	....	....	1	....	....
66B. Exophthalmic goitre	79	....	2	....	1	....	1	3	....	13	3	....
66C. Myxoedema, cretinism	5	....	....	....	....	....	....	....	....	....	....	....
66D. Tetany	6	....	1	....	....	....	....	....	....	....	....	....
66E. Others under this title	3	....	....	....	....	....	....	....	....	....	....	....
67. Diseases of the thymus gland	27	....	....	2	....	....	....	1	....	....	....	5
68. Diseases of the adrenals (Addison's disease)	5	....	....	....	....	....	....	....	....	....	....	....
69. Other general diseases	18	....	....	1	....	....	....	....	....	2	....	....
69A. Fatty or amyloid degeneration	6	....	....	....	....	....	....	....	....	....	....	....
69C. Others under this title	12	....	....	1	....	....	....	....	....	2	....	....
CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS												
Total	283	3	3	7	2	2	....	1	4	23	4	....
70. Haemorrhagic conditions	11	....	....	2	....	....	....	....	....	1	....	....
70A. Simple purpura	9	....	....	2	....	....	....	....	....	1	....	....
70B. Haemophilia	2	....	....	....	....	....	....	....	....	....	....	....
71. Anaemia	139	2	2	4	....	1	....	1	2	12	3	....
71A. Pernicious anaemia	125	2	1	4	....	1	....	1	2	10	3	....
71B. Others under this title	14	....	1	....	....	....	....	....	....	2	....	....
72. Leukaemia and aleukaemia	115	1	1	....	2	1	....	....	2	6	1	....
72A. Leukaemia	87	1	1	....	1	1	....	....	1	5	1	....
72B. Aleukaemia (Hodgkin's disease)	28	....	....	....	1	....	....	....	1	1	....	....

OF 10,000 POPULATION AND OVER—ONTARIO, 1938—Continued

Kitchener	London	Niagara Falls	North Bay	Oshawa	Ottawa	Owen Sound	Pembroke	Peterborough	Port Arthur	St. Catharines	St. Thomas	Sarnia	Sault Ste. Marie	Stratford	Sudbury	Timmins	Toronto	Welland	Windsor	Woodstock	
....	2	....	....	....	6	....	....	....	....	1	....	....	....	....	....	....	18	....	....	....	47A
1	2	....	1	1	1	1	....	....	1	2	....	1	....	2	....	....	37	....	5	....	47B
....	1	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	4	....	....	....	47C
....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	10	....	1	....	47D
2	11	3	2	....	18	3	1	....	4	4	5	3	4	5	....	1	104	2	14	2	48
1	6	....	2	....	10	3	1	....	3	2	4	2	2	3	....	....	50	2	5	2	48A
1	5	3	....	....	8	....	....	....	1	2	1	1	2	2	....	1	54	....	9	....	48B
1	3	1	....	1	8	....	1	....	....	1	....	....	2	1	....	....	42	1	6	1	49
10	17	1	5	3	29	....	2	8	1	4	5	4	1	2	4	2	118	3	12	4	50
6	9	10	2	3	23	1	2	3	1	1	1	2	3	3	1	....	93	....	10	4	51
1	2	1	....	....	4	....	....	....	....	....	....	1	1	....	....	....	30	....	5	1	51A
1	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	7	....	1	1	51B
3	7	9	2	3	18	1	1	2	....	1	....	1	2	3	1	....	53	....	4	2	51C
1	....	....	....	....	1	....	1	....	1	....	....	....	....	....	....	....	3	....	....	....	51D
3	1	1	1	....	3	....	....	1	2	....	....	2	....	1	....	....	8	1	2	....	52
4	15	1	....	2	27	3	2	4	2	3	3	3	5	2	3	1	102	1	10	1	53
....	1	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	2	....	....	....	53A
....	3	....	....	....	6	....	....	1	....	1	1	....	1	....	1	....	16	....	1	1	53C
....	1	....	....	....	7	1	....	....	1	....	....	....	....	1	....	....	13	....	2	....	53D
1	2	....	....	....	4	....	....	....	....	....	....	1	2	1	....	....	11	....	1	....	53E
3	4	....	....	1	4	1	....	3	....	2	....	1	1	....	1	1	27	....	3	....	53F
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	7	1	1	....	53G
....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	53H
....	1	....	....	1	1	....	....	....	....	....	1	....	....	....	1	....	12	....	....	....	53I
....	2	1	....	....	2	....	....	....	1	....	....	1	1	....	....	....	4	....	....	....	53J
....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	5	....	2	....	53K
....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	4	....	....	....	33M
5	13	5	2	1	20	....	1	3	1	2	5	1	4	....	1	....	65	2	6	2	64
1	3	....	1	....	3	....	....	....	....	1	1	1	....	....	....	....	7	....	1	....	54A
. ..	2	1	....	....	3	....	....	1	1	1	....	....	1	....	....	....	6	....	3	2	54B
1	2	1	....	1	2	....	....	....	....	....	....	....	1	....	....	....	16	....	....	....	54D
2	4	1	1	....	3	....	....	....	....	....	1	....	2	....	1	....	10	2	1	....	54E
....	1	....	....	....	7	....	....	....	....	....	2	....	....	....	....	....	13	....	....	....	54F
1	1	2	....	....	2	....	1	2	....	....	1	....	....	....	....	....	13	....	1	....	54G
1	....	....	....	1	1	1	2	2	....	....	....	1	....	1	1	....	12	....	....	1	55
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	55B
....	....	....	....	....	1	1	1	1	....	....	....	1	....	1	....	....	6	....	....	1	55D
....	....	....	....	1	....	....	1	1	....	....	....	....	....	....	1	....	6	....	....	....	55G
16	36	5	3	5	60	6	10	10	17	11	3	8	7	7	13	5	238	5	32	6	
5	2	....	1	2	13	....	....	....	2	1	....	1	2	....	2	....	39	2	2	1	56
....	2	....	....	1	1	....	2	....	2	....	....	....	....	....	1	2	5	....	2	....	57
7	26	5	2	....	31	2	3	8	8	6	2	6	3	6	8	1	138	1	19	4	59
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	61
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	62
....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	63
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	64
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	....	1	....	65
3	5	....	....	1	11	2	2	1	2	3	1	1	1	1	2	....	33	2	5	....	66
....	1	....	....	....	1	....	....	1	....	1	1	....	....	1	....	....	1	....	....	....	66A
3	4	....	....	1	8	2	2	....	1	2	....	1	1	....	2	....	24	2	3	....	66B
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	2	....	2	....	66C
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	4	....	....	....	66D
....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	2	....	....	....	66E
1	....	....	....	....	2	....	1	....	3	1	....	....	....	....	....	2	7	....	2	....	67
....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	2	....	1	....	68
....	1	....	....	....	2	1	....	1	....	....	....	....	1	....	....	....	8	....	....	1	69
....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	2	....	....	1	69A
....	....	....	....	....	1	....	....	1	....	....	....	....	1	....	....	....	6	....	....	....	69C
9	17	4	1	3	29	3	....	7	5	4	3	2	8	5	2	3	116	2	7	4	
1	....	....	....	....	2	....	....	....	....	....	....	....	....	1	....	1	2	....	1	....	70
....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	1	2	....	1	....	70A
1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	70B
3	12	1	....	1	19	2	....	2	2	2	3	2	4	3	....	....	49	1	2	4	71
3	10	1	....	1	18	1	....	2	2	2	3	2	4	3	....	....	42	1	2	4	71A
....	2	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	7	....	....	....	71B
5	5	3	1	2	7	1	....	3	3	1	....	....	4	1	2	2	56	1	4	....	72
3	2	3	1	2	6	1	....	3	3	....	....	....	2	1	2	1	43	1	2	....	72A
2	3	....	....	....	1	....	....	....	....	1	....	....	2	....	....	1	13	....	2	....	72B

TABLE 41—CAUSES OF DEATH FOR CITIES, TOWNS AND VILLAGES

CAUSES OF DEATH	Total	Belleville	Brantford	Chatham	Cornwall	Forest Hill	Fort William	Galt	Guelph	Hamilton	Kingston	Kirkland Lake
73. Diseases of the spleen	15	....	....	1	....	....	....	....	....	3	....	....
74. Other diseases of the blood and blood-forming organs	3	....	....	....	....	....	....	....	....	1	....	....
CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS												
Total	43	....	3	....	....	....	....	....	....	5	....	1
75. Alcoholism	38	....	2	....	....	....	....	....	....	5	....	1
75A. Delirium tremens	2	....	1	....	....	....	....	....	....	....	....	....
75B. Other alcoholic intoxications	36	....	1	....	....	....	....	....	....	5	....	1
76. Chronic poisoning, by other organic substances	2	....	1	....	....	....	....	....	....	....	....	....
76A. Chronic morphinism	1	....	1	....	....	....	....	....	....	....	....	....
76D. Other organic poisoning	1	....	....	....	....	....	....	....	....	....	....	....
77. Chronic poisoning by mineral substances	3	....	....	....	....	....	....	....	....	....	....	....
77A. Lead (including occupational)	2	....	....	....	....	....	....	....	....	....	....	....
77C. Others under this title	1	....	....	....	....	....	....	....	....	....	....	....
CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE												
Total	826	6	24	12	6	2	2	6	8	42	23	4
78. Encephalitis (non-epidemic)	23	1	3	1	....	....	....	....	....	....	1	....
79. Simple meningitis	38	....	....	....	1	....	....	....	....	4	1	....
80. Progressive locomotor ataxia (tabes dorsalis)	10	....	....	....	....	....	....	....	....	....	....	....
81. Other diseases of the spinal cord	51	....	2	1	....	....	....	....	1	2	3	....
82. Cerebral haemorrhage, cerebral embolism and thrombosis	363	5	11	2	2	2	....	5	3	20	7	3
82A. Cerebral haemorrhage	280	4	10	....	1	2	....	4	2	16	5	2
82B. Cerebral embolism and thrombosis	47	1	1	1	1	....	....	....	....	2	2	....
82C. Softening of the brain	2	....	....	....	....	....	....	....	....	....	....	....
82D. Hemiplegia and other paralysis, cause not specified	34	....	....	1	....	....	....	1	1	2	....	1
83. General paralysis of the insane	23	....	....	....	....	....	....	....	....	....	....	....
84. Dementia praecox and other psychoses	48	....	1	....	....	....	....	....	....	....	....	....
84A. Dementia praecox	39	....	....	....	....	....	....	....	....	....	....	....
84B. Other psychoses	9	....	1	....	....	....	....	....	....	....	....	....
85. Epilepsy	23	....	1	....	....	....	....	....	....	1	1	....
86. Convulsions (under 5 years of age)	6	....	....	....	....	....	....	....	....	....	2	....
87. Other diseases of the nervous system	142	....	4	5	3	....	1	1	3	8	3	1
87B. Neuralgia and neuritis	14	....	....	1	1	....	....	....	1	....	....	....
87C. Paralysis agitans	60	....	....	....	2	....	....	....	1	4	3	1
87D. Sclerosis (other than of the spinal cord)	49	....	2	4	....	....	....	1	....	4	....	....
87E. Others under this title	19	....	2	....	....	....	1	....	1	....	....	....
88. Diseases of the organs of vision	14	....	....	....	....	....	....	....	....	3	....	....
89. Diseases of the ear and mastoid process	85	....	2	3	....	....	1	....	1	4	5	....
89A. Otitis	47	....	1	2	....	....	....	....	....	2	2	....
89B. Diseases of the mastoid process	38	....	1	1	....	....	1	....	1	2	3	....
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM												
Total	5,897	64	146	80	42	17	51	68	83	543	136	20
90–95—Diseases of the heart	3,565	39	82	30	26	12	33	38	54	280	73	14
90. Pericarditis	8	1	....	....	....	....	....	....	....	....	....	....
91. Acute endocarditis	58	....	....	....	....	1	....	1	2	6	....	1
91A. Endocarditis specified as acute	49	....	....	....	....	1	....	1	2	5	....	1
91B. Endocarditis, unspecified (under 45 years of age)	9	....	....	....	....	....	....	....	....	1	....	....
92. Chronic endocarditis, valvular diseases	407	1	20	7	5	2	9	3	9	28	11	1
92A. Endocarditis specified as chronic and other valvular diseases	345	1	17	5	5	2	7	2	7	26	10	1
92B. Endocarditis, unspecified (45 years and over)	62	....	3	2	....	....	2	1	2	2	1	....
93. Diseases of the myocardium	986	14	8	5	6	1	3	14	21	71	14	3
93A. Acute myocarditis	64	2	1	....	....	....	....	1	....	3	1	....
93B. Myocarditis, unspecified (under 45 years of age)	21	....	....	1	....	....	....	....	1	3	....	....
93C. Chronic myocarditis and myocardial degeneration	600	5	5	2	2	1	2	5	5	34	10	1
93D. Myocarditis, unspecified (45 years and over)	301	7	2	2	4	....	1	8	15	31	3	2
94. Diseases of the coronary arteries and angina pectoris	1,928	18	52	15	14	7	20	18	22	160	42	9
94A. Diseases of the coronary arteries	71	....	1	....	....	....	1	....	....	7	3	....

OF 10,000 POPULATION AND OVER—ONTARIO, 1938—Continued

Kitchener	London	Niagara Falls	North Bay	Oshawa	Ottawa	Owen Sound	Pembroke	Peterborough	Port Arthur	St. Catharines	St. Thomas	Sarnia	Sault Ste. Marie	Stratford	Sudbury	Timmins	Toronto	Welland	Windsor	Woodstock	
....	....	....	....	....	1	....	....	2	....	1	....	....	....	....	....	....	7	....	....	....	73
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	74
....	5	....	....	2	4	....	....	....	....	....	....	....	....	....	1	2	18	1	....	1	
....	4	....	....	2	2	....	....	....	....	....	....	....	....	....	1	2	17	1	....	1	75
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	75A
....	3	....	....	2	2	....	....	....	....	....	....	....	....	....	1	2	17	1	....	1	75B
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	76
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	76A
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	76D
....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	77
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	77A
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	77C
15	83	7	3	12	68	3	6	15	9	17	13	13	6	9	8	4	336	9	36	19	
....	....	....	....	1	....	....	....	....	....	....	....	....	....	1	1	....	8	1	4	1	78
2	4	1	....	2	4	....	3	....	2	....	....	....	1	....	1	....	11	....	1	....	79
....	....	....	....	....	2	....	....	....	....	2	1	1	....	....	....	....	4	....	....	....	80
2	4	....	....	3	2	1	....	1	....	2	....	....	....	....	....	....	23	....	4	....	81
7	31	3	1	5	29	2	3	6	4	8	7	8	1	6	4	....	158	....	11	9	82
7	26	2	1	3	16	2	....	5	3	6	7	6	....	5	4	....	126	....	9	6	82A
....	2	1	....	1	7	....	....	....	1	1	....	2	....	1	....	....	21	....	2	....	82B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	82C
....	3	....	....	1	6	....	3	1	....	1	....	....	1	....	....	....	9	....	....	3	82D
....	10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	12	1	....	....	83
....	17	....	....	....	5	....	....	....	....	....	....	1	2	....	....	....	22	....	....	....	84
....	16	....	....	....	2	....	....	....	....	....	....	....	1	....	....	....	20	....	....	....	84A
....	1	....	....	....	3	....	....	....	....	....	....	1	1	....	....	....	2	....	....	....	84B
....	1	1	....	....	....	....	....	....	....	....	....	....	1	1	1	....	7	1	....	7	85
....	1	....	1	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	86
2	7	1	1	....	13	....	....	3	2	4	3	1	....	....	....	....	61	5	8	2	87
....	....	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....	7	1	....	....	87B
1	2	1	....	....	7	....	....	1	1	3	1	1	....	....	....	....	24	2	4	1	87C
....	5	....	1	....	3	....	....	1	....	1	1	....	....	....	....	....	21	2	3	....	87D
1	....	....	....	....	1	....	....	1	....	....	1	....	....	....	....	....	9	....	1	1	87E
....	....	....	....	....	2	....	....	2	....	1	....	....	....	....	....	1	5	....	....	....	88
2	8	1	....	1	10	....	....	3	1	....	2	1	1	1	1	3	25	1	8	....	89
2	4	....	....	1	7	....	....	2	....	....	1	....	1	1	1	2	13	1	4	....	89A
....	4	1	....	....	3	....	....	1	1	....	1	1	....	....	....	1	12	....	4	....	89B
101	344	74	55	64	503	74	42	120	57	94	82	79	56	73	54	35	2414	40	233	53	
65	200	43	40	39	295	38	28	71	45	54	50	45	39	50	32	24	1514	23	155	34	90–95
....	3	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	3	....	....	....	90
2	3	1	2	....	2	....	....	1	1	1	1	2	....	....	....	1	27	....	3	....	91
2	2	....	2	....	1	....	....	....	1	1	1	2	....	....	....	....	24	....	3	....	91A
....	1	1	....	....	1	....	....	1	....	....	....	....	....	....	....	1	3	....	....	....	91B
4	13	5	5	7	38	5	10	8	9	6	4	9	8	3	2	....	156	4	11	4	92
2	10	5	5	6	28	5	5	8	9	6	4	6	7	2	2	....	136	4	10	2	92A
2	3	....	....	1	10	....	5	....	....	....	....	3	1	1	....	....	20	....	1	2	92B
16	91	4	10	8	90	14	8	27	6	17	13	9	16	16	11	7	402	7	41	13	93
....	16	2	....	....	2	3	....	3	....	2	....	....	....	....	....	....	25	....	3	....	93A
1	2	....	1	....	2	....	....	....	1	1	....	1	....	1	1	1	3	....	1	....	93B
6	63	1	7	7	56	10	2	11	3	6	11	6	4	11	6	4	272	6	25	11	93C
9	10	1	2	1	30	1	6	13	2	8	2	2	12	4	4	2	102	1	12	2	93D
41	73	32	21	24	155	19	10	29	26	27	30	25	11	28	19	16	846	11	91	17	94
....	3	....	....	2	6	....	....	....	10	3	1	....	1	....	....	1	31	....	1	....	94A

TABLE 41—CAUSES OF DEATH FOR CITIES, TOWNS AND VILLAGES

CAUSES OF DEATH	Total	Belleville	Brantford	Chatham	Cornwall	Forest Hill	Fort William	Galt	Guelph	Hamilton	Kingston	Kirkland Lake
94B. Embolism and thrombosis of the coronary arteries	1,701	17	48	14	9	7	19	17	19	141	34	7
94C. Angina pectoris	156	1	3	1	5	....	....	1	3	12	5	2
95. Other diseases of the heart	178	5	2	3	1	1	1	2	....	15	6	....
95A. Functional diseases of the heart	37	1	....	1	....	1	....	....	....	2	....	....
95B. Other and unspecified	141	4	2	2	1	....	1	2	....	13	6	....
96. Aneurysm (except of the heart)	51	1	2	1	1	....	....	....	....	14	1	1
97. Arteriosclerosis (of coronary arteries excepted)	1,723	16	44	35	13	3	13	27	24	195	56	4
98. Gangrene	60	....	2	1	....	....	....	1	1	4	2	....
99. Other diseases of the arteries	19	....	1	1	....	....	....	....	1	1	1	....
100. Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	45	....	4	2	....	....	....	1	1	5	1	....
101. Diseases of the lymphatic system (lymphangitis, etc.)	5	....	....	....	....	....	....	....	....	1	....	....
102. Idiopathic abnormalities of blood pressure	428	8	11	10	2	2	5	1	2	43	2	1
103. Other diseases of the circulatory system	1	....	....	....	....	....	....	....	....	....	....	....
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM												
Total	1,639	29	28	29	15	2	20	9	17	140	34	15
104. Diseases of the nasal fossae and annexa	24	....	....	....	....	....	....	....	....	....	2	....
105. Diseases of the larynx	19	1	....	....	....	....	....	....	....	3	1	....
105A. Croup	2	....	....	....	....	....	....	....	....	....	....	....
105B. Other diseases of the larynx	17	1	....	....	....	....	....	....	....	3	1	....
106. Bronchitis	39	1	1	....	1	....	....	....	1	2	2	....
106A. Acute	25	....	1	....	1	....	....	....	....	....	2	....
106B. Chronic	12	1	....	....	....	....	....	....	....	2	....	....
106C. Unspecified	2	....	....	....	....	....	....	....	1	....	....	....
107. Bronchopneumonia	720	8	15	14	6	....	8	5	5	69	15	5
107A. Bronchopneumonia	719	8	15	14	5	....	8	5	5	69	15	5
107B. Capillary bronchitis	1	....	....	....	1	....	....	....	....	....	....	....
108. Lobar pneumonia	555	13	10	11	6	2	7	2	4	51	9	8
109. Pneumonia, unspecified	98	4	1	3	....	....	3	2	2	6	1	....
110. Pleurisy	39	1	....	....	....	....	....	....	1	3	1	....
111. Congestion and haemorrhagic infarct of the lung, etc	34	....	....	1	2	....	....	....	....	....	1	....
111A. Pulmonary embolism and thrombosis	8	....	....	....	1	....	....	....	....	....	....	....
111B. Others under this title	26	....	....	1	1	....	....	....	....	....	1	....
112. Asthma	79	1	1	....	....	....	2	....	4	4	2	1
113. Pulmonary emphysema	3	....	....	....	....	....	....	....	....	....	....	....
114. Other diseases of the respiratory system (tuberculosis excepted)	29	....	....	....	....	....	....	....	....	2	....	1
114A. Chronic interstitial pneumonia including occupational diseases of the respiratory system	5	....	....	....	....	....	....	....	....	1	....	....
114B. Gangrene of the lung	1	....	....	....	....	....	....	....	....	1	....	....
114C. Others under this title	23	....	....	....	....	....	....	....	....	....	...	1
CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM												
Total	1,490	33	36	39	19	....	18	16	20	123	46	15
115. Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations)	109	1	2	7	....	....	....	1	4	10	3	2
115A. Diseases of the buccal cavity and annexa	34	1	....	3	....	....	....	1	1	2	....	2
115B. Diseases of the tonsils	31	....	1	....	....	....	....	....	2	2	2	....
115C. Others under this title	44	....	1	4	....	....	....	....	1	6	1	....
116. Diseases of the oesophagus	5	....	....	....	....	....	....	....	....	1	....	....
117. Ulcer of the stomach or duodenum	188	3	2	3	1	....	5	1	2	14	4	3
117A. Ulcer of the stomach	93	1	1	....	1	....	5	....	1	5	1	2
117B. Ulcer of the duodenum	95	2	1	3	....	....	....	1	1	9	3	1
118. Other diseases of the stomach	17	....	1	1	1	....	....	....	....	....	....	....
119. Diarrhoea and enteritis (under 2 years of age)	161	2	5	6	3	....	1	2	....	6	6	2
120. Diarrhoea and enteritis (2 years and over)	88	3	2	3	1	....	....	3	2	8	4	....
120A. Diarrhoea and enteritis	48	1	2	2	....	....	....	2	1	5	1	....
120B. Ulceration of the intestines	40	2	....	1	1	....	....	1	1	3	3	....
121. Appendicitis	240	10	2	6	3	....	3	5	4	15	2	5
122. Hernia, intestinal obstruction	270	6	12	11	6	....	1	2	1	19	18	2
122A. Hernia	114	3	6	7	2	....	1	....	1	11	8	....
122B. Intestinal obstruction	156	3	6	4	4	....	....	2	....	8	10	2
123. Other diseases of the intestines	36	2	3	....	....	....	1	....	....	2	2	....
124. Cirrhosis of the liver	105	2	2	1	2	....	1	1	3	16	2	....
124A. Specified as alcoholic	11	....	....	....	....	....	....	....	1	....	1	....
124B. Not specified as alcoholic	94	2	2	1	2	....	1	1	2	16	1	....

OF 10,000 POPULATION AND OVER—ONTARIO, 1938—Continued

Kitchener	London	Niagara Falls	North Bay	Oshawa	Ottawa	Owen Sound	Pembroke	Peterborough	Port Arthur	St. Catharines	St. Thomas	Sarnia	Sault Ste. Marie	Stratford	Sudbury	Timmins	Toronto	Welland	Windsor	Woodstock	
35	59	31	19	20	137	16	9	26	14	23	25	22	5	26	19	14	759	11	85	14	94B
6	11	1	2	2	12	3	1	3	2	1	4	3	5	2	....	1	56	....	5	3	94C
2	17	1	2	....	10	....	....	6	3	2	2	....	4	3	....	....	80	1	9	....	95
....	2	1	....	....	2	....	....	....	....	....	2	....	....	....	....	....	23	....	2	....	95A
2	15	....	2	....	8	....	....	6	3	2	....	....	4	3	....	....	57	1	7	....	95B
....	4	....	....	2	3	1	....	1	....	1	....	....	....	1	....	1	16	....	....	....	96
30	103	27	12	22	153	26	12	40	6	33	29	30	16	16	16	4	639	10	54	15	97
....	5	....	....	....	12	3	....	....	....	....	....	1	....	2	1	....	23	....	1	1	98
....	....	....	1	....	3	....	....	....	....	....	....	....	....	....	1	....	9	....	....	....	99
....	4	2	....	....	1	....	....	1	1	....	....	1	....	1	....	....	17	1	1	1	100
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....	101
6	27	2	2	1	35	6	2	7	5	6	3	2	1	3	4	6	193	6	22	2	102
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	103
32	106	20	18	15	122	10	15	38	23	36	14	25	21	15	37	32	628	15	53	26	
....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	20	....	....	....	104
....	....	....	1	....	2	....	....	2	....	....	....	....	....	....	2	2	3	....	2	....	105
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	105A
....	....	....	1	....	2	....	....	2	....	....	....	....	....	....	2	....	3	....	2	....	105B
....	3	2	....	2	4	....	....	1	....	1	1	3	....	....	....	1	12	....	....	1	106
....	2	2	....	2	1	....	....	....	....	1	1	3	....	....	....	1	8	....	....	....	106A
....	1	....	....	....	2	....	....	1	....	....	....	....	....	....	....	....	4	....	....	1	106B
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	106C
13	53	8	10	7	54	1	3	16	7	17	1	9	8	9	20	16	294	1	10	13	107
13	53	8	10	7	54	1	3	16	7	17	1	9	8	9	20	16	294	1	10	13	107A
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	107B
10	29	5	6	6	45	6	8	8	10	11	6	10	11	4	10	10	192	12	25	8	108
7	8	....	....	....	8	2	3	4	1	....	3	....	....	....	2	2	27	....	9	....	109
....	3	1	....	....	4	1	....	2	....	3	....	2	1	....	....	....	15	....	1	....	110
....	....	3	....	....	1	....	1	....	2	3	2	....	....	1	....	....	14	....	1	2	111
....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	3	....	....	2	111A
....	....	2	....	....	1	....	1	....	2	3	1	....	....	1	....	....	11	....	1	....	111B
....	6	....	....	....	4	....	....	3	2	....	1	1	1	1	2	....	35	2	4	2	121
....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	113
2	2	....	1	....	....	....	....	2	1	1	....	....	....	....	....	1	15	....	1	....	114
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	....	....	....	114A
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	114B
2	2	....	1	....	....	....	....	2	1	1	....	....	....	....	....	1	11	....	1	....	114C
34	76	29	24	18	162	17	26	16	28	29	14	17	20	23	38	22	423	12	82	15	
....	6	6	2	2	6	2	2	2	2	2	1	1	1	....	2	....	26	2	12	2	115
....	1	....	1	1	2	1	1	....	....	1	1	....	....	....	1	....	8	1	4	1	115A
....	2	2	1	....	3	....	....	....	....	1	....	1	1	....	....	....	8	....	4	1	115B
....	3	4	....	1	1	1	1	2	2	....	....	....	....	....	1	....	10	1	4	....	115C
....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	116
4	14	4	....	4	18	2	1	1	4	5	3	1	2	....	3	3	73	1	5	2	117
2	9	2	....	1	10	2	1	....	4	3	1	1	1	....	3	3	28	1	3	1	117A
2	5	2	....	3	8	....	....	1	....	2	2	....	1	....	....	....	45	....	2	1	117B
....	1	....	....	....	2	....	....	....	....	....	....	1	1	1	....	1	7	....	....	....	118
4	1	1	11	1	33	1	3	....	6	3	....	2	6	1	19	8	21	1	5	1	119
4	7	....	2	....	8	1	5	1	....	....	1	1	1	2	....	....	23	....	5	1	120
4	2	....	1	....	6	....	4	1	....	....	1	....	1	1	....	....	9	....	4	....	120A
....	5	....	1	....	2	1	1	....	....	....	....	1	....	1	....	....	14	....	1	1	120B
7	14	1	3	1	24	4	9	2	4	2	2	1	2	3	8	4	75	4	12	3	121
5	15	4	5	5	27	3	2	4	5	8	4	3	4	3	1	4	68	3	14	5	122
2	8	....	2	2	7	1	1	2	3	3	3	1	1	1	1	....	30	1	5	1	122A
3	7	4	3	3	20	2	1	2	2	5	1	2	3	2	....	4	38	2	9	4	122B
1	....	....	....	....	3	....	....	2	2	2	....	....	....	....	....	1	14	....	1	....	123
2	3	3	....	....	11	....	1	2	1	1	....	2	1	4	2	....	31	....	11	....	124
....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	5	....	2	....	124A
2	3	2	....	....	11	....	1	1	1	1	....	2	1	4	2	....	26	....	9	....	124B

TABLE 41—CAUSES OF DEATH FOR CITIES, TOWNS AND VILLAGES

CAUSES OF DEATH	Total	Belleville	Brantford	Chatham	Cornwall	Forest Hill	Fort William	Galt	Guelph	Hamilton	Kingston	Kirkland Lake
125. Other diseases of the liver	34	....	2	....	....	....	....	....	1	9	1	....
125A. Yellow atrophy of the liver	11	....	1	....	....	....	....	....	....	2	1	....
125B. Others under this title	23	....	1	....	....	....	....	....	1	7	....	....
126. Biliary calculi	106	2	2	....	1	....	2	....	....	9	4	....
127. Other diseases of the gall-bladder and biliary passages	105	1	1	1	....	....	3	1	3	10	....	1
128. Diseases of the pancreas	8	....	....	....	....	....	....	....	....	....	....	....
129. Peritonitis, cause not specified	18	1	....	....	1	....	1	....	....	4	....	....
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM												
Total	1,398	25	36	26	24	3	14	21	17	106	60	10
130. Acute nephritis (including unspecified, under 10 years of age)	39	....	....	1	....	....	....	....	3	3	1	....
131. Chronic nephritis	650	19	18	8	16	1	7	12	8	49	30	7
132. Nephritis, unspecified (10 years and over)	198	....	7	7	1	1	1	4	3	8	7	....
133. Other diseases of the kidneys and ureters	96	1	1	1	3	1	....	1	....	3	2	1
134. Calculi of the urinary passages	34	....	....	1	1	....	....	....	....	4	....	....
135. Diseases of the bladder (tumours excepted)	44	....	....	1	2	....	....	1	1	9	1	1
136. Diseases of the urethra, urinary abscess, etc.	16	....	1	....	....	....	1	....	....	1	....	....
136A. Stricture of the urethra	13	....	1	....	....	....	1	....	....	1	....	....
136B. Others under this title	3	....	....	....	....	....	....	....	....	....	....	....
137. Diseases of the prostate	279	4	7	7	1	....	5	3	2	24	19	....
138. Diseases of the male genital organs (not specified as venereal)	2	....	....	....	....	....	....	....	....	1	....	....
139. Diseases of the female genital organs (not specified as venereal)	40	1	2	....	....	....	....	....	....	4	....	1
139A. Of the ovary, Fallopian tube and parametrium	16	1	....	....	....	....	....	....	....	1	....	1
139B. Of the uterus	24	....	2	....	....	....	....	....	....	3	....	....
CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE												
Total	155	5	1	1	3	....	5	1	....	13	3	3
140. Abortion with spetic conditions	19	1	....	....	....	....	....	....	....	1	....	1
140A. Abortion	8	....	....	....	....	....	....	....	....	1	....	1
140B. Self-induced abortion	11	1	....	....	....	....	....	....	....	....	....	....
141. Abortion without mention of septic conditions (haemorrhage included)	6	1	....	....	....	....	....	....	....	....	....	....
141A. Abortion	5	1	....	....	....	....	....	....	....	....	....	....
141B. Self-induced abortion	1	....	....	....	....	....	....	....	....	....	....	....
142. Ectopic gestation	7	....	....	....	....	1	....	....	....	....	....	....
142A. With septic conditions	1	....	....	....	....	....	....	....	....	....	....	....
142B. Without mention of septic conditions	6	....	....	....	1	....	....	....	....	....	....	....
143. Other accidents of pregnancy (haemorrhage excluded)	2	....	....	....	....	....	....	....	....	....	1	....
144. Puerperal haemorrhage	11	....	....	....	....	....	....	....	....	1	....	1
144A. Placenta praevia	4	....	....	....	....	....	....	....	....	....	....	1
144B. Other haemorrhages	7	....	....	....	....	....	....	....	....	1	....	....
145. Puerperal septicaemia (not specified as due to abortion)	36	2	....	....	1	....	1	....	....	5	2	....
145A. Puerperal septicaemia and pyaemia	36	2	....	....	1	....	1	....	....	5	2	....
146. Puerperal albuminuria and eclampsia	29	....	....	1	....	....	....	....	....	1	....	1
147. Other toxaemias of pregnancy	6	....	....	....	....	....	3	....	....	2	....	....
148. Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)	16	1	....	....	....	....	....	1	....	3	....	....
148A. Phlegmasia alba dolens and thrombosis	6	1	....	....	....	....	....	1	....	....	....	....
148B. Embolism	6	....	....	....	....	....	....	....	....	2	....	....
148C. Sudden death	4	....	....	....	....	....	....	....	....	1	....	....
149. Other accidents of childbirth	23	....	1	....	1	....	1	....	....	....	....	....
149A. Caesarean operation	5	....	....	....	....	....	....	....	....	....	....	....
149B. Other surgical operations and instrumental delivery	6	....	....	....	....	....	....	....	....	....	....	....
149C. Dystocia	6	....	1	....	1	....	....	....	....	....	....	....
149E. Others under this title	6	....	....	....	....	....	1	....	....	....	....	....
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE												
Total	36	....	1	2	....	....	....	....	....	3	....	....
151. Carbuncle	15	....	1	2	....	....	....	....	....	3	....	....
152. Cellulitis, acute abscess	9	....	....	....	....	....	....	....	....	....	....	....

OF 10,000 POPULATION AND OVER—ONTARIO, 1938—Continued

Kitchener	London	Niagara Falls	North Bay	Oshawa	Ottawa	Owen Sound	Pembroke	Peterborough	Port Arthur	St. Catharines	St. Thomas	Sarnia	Sault Ste. Marie	Stratford	Sudbury	Timmins	Toronto	Welland	Windsor	Woodstock	
1	....	1	....	....	3	....	....	....	1	1	1	....	....	....	1	1	11	....	....	....	125
....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	5	....	....	....	125A
1	....	1	....	....	2	....	....	....	1	1	....	....	....	....	1	1	6	....	....	....	125B
1	4	3	1	3	17	2	1	2	2	3	....	3	1	6	1	....	28	....	7	1	126
5	7	5	....	1	8	2	2	....	1	2	2	1	1	3	1	....	33	1	9	....	127
....	3	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	3	....	....	....	128
....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	8	....	1	....	129
38	88	19	6	9	142	18	15	46	10	34	18	8	25	17	10	8	399	14	113	19	
....	....	....	....	....	5	1	1	1	1	2	....	1	1	3	....	....	12	....	1	2	130
14	50	13	4	3	65	5	8	18	2	15	10	3	13	8	6	2	156	4	65	11	131
7	7	2	1	2	24	1	1	16	3	7	....	....	4	2	1	2	46	6	26	1	132
3	7	....	....	1	11	3	1	2	....	1	1	....	1	....	....	1	40	2	8	....	133
3	2	....	....	....	4	1	....	1	....	2	....	....	....	....	....	....	13	....	2	....	134
1	1	1	....	....	5	....	....	....	....	....	....	....	....	....	....	....	19	....	1	....	135
....	2	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	8	....	....	1	136
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	8	....	....	1	136A
....	2	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	136B
9	19	1	1	3	24	6	4	5	2	6	6	3	4	4	2	1	94	....	9	4	137
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	138
1	....	2	....	....	3	1	....	2	2	1	1	1	2	....	1	2	11	1	1	....	139
1	....	....	....	....	2	....	....	....	1	1	....	1	2	....	....	1	3	....	1	....	139A
....	....	2	....	....	1	1	....	2	1	....	1	....	....	....	1	1	8	1	....	....	139B
....	7	....	2	2	19	2	3	4	5	5	3	1	2	2	4	6	40	2	10	1	
....	1	....	....	1	1	....	....	....	1	....	1	....	....	....	1	2	8	....	....	....	140
....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	1	1	2	....	....	....	140A
....	1	....	....	1	....	....	....	....	....	....	1	....	....	....	....	1	6	....	....	....	140B
....	....	....	....	....	....	....	2	....	....	....	....	1	....	....	....	....	2	....	....	....	141
....	....	....	....	....	....	....	2	....	....	....	....	1	....	....	....	....	1	....	....	....	141A
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	141B
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	4	....	....	....	142
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	142A
....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	3	....	....	....	142B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	143
....	....	....	1	....	1	....	....	....	....	....	....	....	....	1	....	2	2	....	2	....	144
....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	144A
....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	1	2	....	1	....	144B
....	....	....	....	1	4	1	1	2	1	2	1	....	1	....	....	1	6	1	3	....	145
....	....	....	....	1	4	1	1	2	1	2	1	....	1	....	....	1	6	1	3	....	145A
....	....	....	1	....	10	....	....	2	1	2	....	....	1	....	2	....	5	....	2	....	146
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	147
....	2	....	....	....	2	....	....	....	1	....	....	....	....	1	....	1	4	....	....	....	148
....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	148A
....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	148B
....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	148C
....	3	....	....	....	1	1	....	....	1	1	1	....	....	....	....	....	8	1	2	1	149
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	2	....	1	1	149A
....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....	149B
....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	2	1	....	....	149C
....	....	....	....	....	1	1	....	....	....	1	....	....	....	....	....	....	1	....	1	....	149E
1	1	....	....	....	4	2	....	....	2	....	1	1	....	1	....	1	16	....	....	....	
....	....	....	....	....	1	....	....	....	1	....	....	....	....	1	....	1	5	....	....	....	151
....	....	....	....	....	....	1	....	....	1	....	1	1	....	....	....	....	5	....	....	....	152

TABLE 41—CAUSES OF DEATH FOR CITIES, TOWNS AND VILLAGES

CAUSES OF DEATH	Total	Belleville	Brantford	Chatham	Cornwall	Forest Hill	Fort William	Galt	Guelph	Hamilton	Kingston	Kirkland Lake
153. Other diseases of the skin and annexa and of the cellular tissue	12	....	....	....	....	....	....	....	....	....	....	....
CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION												
Total	74	....	1	....	1	....	....	....	....	8	3	1
154. Osteomyelitis	38	....	....	....	....	....	....	....	....	2	2	....
155. Other diseases of the bones (tuberculosis excepted)	9	....	1	....	1	....	....	....	....	....	1	....
156. Diseases of the joints and other organs of locomotion	27	....	....	....	....	....	....	....	....	5	....	1
156A. Of the joints (tuberculosis and rheumatism excepted)	11	....	....	....	....	....	....	....	....	2	....	....
156B. Of other organs of locomotion	16	....	....	....	....	....	....	....	....	3	....	1
CLASS XIV.—CONGENITAL MALFORMATIONS												
Total	274	8	3	4	4	1	....	2	4	33	6	6
157. Congenital malformations (stillbirths excluded)	274	8	3	4	4	1	....	2	4	33	6	6
157A. Congenital hydrocephalus	30	1	....	1	1	....	....	....	....	4	3	....
157B. Spina bifida and meningocele	70	....	....	1	....	1	....	....	1	8	2	1
157C. Congenital malformations of the heart	91	3	2	2	1	....	....	2	2	7	1	1
157D. Monstrosities	5	2	....	....	....	....	....	....	....	1	....	....
157E. Others under this title	78	2	1	....	2	....	....	....	1	13	....	4
CLASS XV.—DISEASES OF EARLY INFANCY												
Total	873	9	11	34	15	....	14	8	6	56	22	17
158. Congenital debility	33	....	....	1	....	....	1	....	....	1	3	1
159. Premature birth	580	8	9	19	13	....	11	5	5	36	10	13
160. Injury at birth	159	1	1	9	2	....	2	1	1	13	5	1
160A. With mention of caesarean operation	3	....	....	....	....	....	....	....	....	....	....	....
160B. Without mention of caesarean operation	156	1	1	9	2	....	2	1	1	13	5	1
161. Other diseases peculiar to early infancy (under 3 months)	101	....	1	5	....	....	....	2	....	6	4	2
161A. Atelectasis	43	....	1	....	....	....	....	....	....	3	....	....
161B. Icterus of the new-born	14	....	....	1	....	....	....	1	....	2	1	1
161C. Sclerema and oedema	1	....	....	....	....	....	....	....	....	....	....	....
161E. Others, including lack of care	43	....	....	4	....	....	....	1	....	1	3	1
CLASS XVI.—SENILITY												
Total	160	1	3	1	1	....	....	3	1	13	9	....
162. Senility	160	1	3	1	1	....	....	3	1	13	9	....
162A. With senile dementia (70 years and over)	68	....	1	....	1	....	....	3	....	3	8	....
162B. Without senile dementia (70 years and over)	92	1	2	1	....	....	....	....	1	10	1	....
CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS												
Total	1231	18	32	31	22	1	18	14	14	102	36	22
163–171 Suicides	175	....	4	1	3	....	3	4	1	11	6	2
163. Suicide by solid or liquid poisons or by absorption of corrosive substances	51	....	1	....	1	....	1	....	1	3	1	2
164. Suicide by poisonous gas	27	....	....	....	....	....	....	1	....	....	1	....
165. Suicide by hanging or strangulation	27	....	1	....	....	....	1	1	....	4	1	....
166. Suicide by drowning	14	....	1	....	....	....	1	1	....	1	....	....
167. Suicide by firearms	21	....	1	....	2	....	....	....	....	1	2	....
168. Suicide by cutting or piercing instruments	10	....	....	....	....	....	....	1	....	....	....	....
169. Suicide by jumping from high places	21	....	....	....	....	....	....	....	....	2	1	....
170. Suicide by crushing	2	....	....	....	....	....	....	....	....	....	....	....
171. Suicide by other means	2	....	....	1	....	....	....	....	....	....	....	....
173–175. Homicides	20	....	1	....	1	....	2	....	....	2	....	....
173. Homicide by firearms	3	....	....	....	....	....	....	....	....	2	....	....

OF 10,000 POPULATION AND OVER—ONTARIO, 1938—Continued

Kitchener	London	Niagara Falls	North Bay	Oshawa	Ottawa	Owen Sound	Pembroke	Peterborough	Port Arthur	St. Catharines	St. Thomas	Sarnia	Sault Ste. Marie	Stratford	Sudbury	Timmins	Toronto	Welland	Windsor	Woodstock	
1	1	....	....	....	3	1	....	....	....	....	....	....	....	....	....	....	6	....	....	....	153
1	5	2	....	....	6	1	....	1	2	4	2	1	2	2	1	....	27	1	2	....	
1	3	....	....	....	4	1	....	....	1	3	1	1	....	1	1	....	15	1	1	....	154
....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	3	....	....	....	155
....	2	2	....	....	2	....	....	....	1	....	1	....	2	1	....	....	9	....	1	....	156
....	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	....	1	....	156A
....	....	....	....	....	2	....	....	....	1	....	1	....	2	1	....	....	5	....	....	....	156B
6	10	1	3	3	22	1	5	3	4	5	4	2	2	4	5	2	106	3	11	1	
6	10	1	3	3	22	1	5	3	4	5	4	2	2	4	5	2	106	3	11	1	157
....	1	....	....	....	2	....	....	....	1	....	....	....	....	1	....	....	12	....	3	....	157A
2	1	1	1	1	7	....	2	1	....	1	2	1	1	....	2	1	28	1	3	....	157B
3	6	....	....	2	6	....	3	1	....	1	....	....	1	1	1	....	39	2	3	1	157C
....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	157D
1	2	....	2	....	7	1	....	....	3	3	1	1	....	2	2	1	27	....	2	....	157E
22	41	9	11	15	81	11	9	16	18	23	13	10	18	6	34	23	259	10	42	10	
....	1	....	1	....	3	1	1	1	2	1	....	2	1	1	3	1	3	3	....	1	158
11	23	6	9	9	58	6	7	11	13	15	7	5	11	4	20	15	183	3	28	7	159
5	11	....	1	6	14	3	....	....	1	4	3	2	3	....	8	5	40	3	13	1	160
1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	160A
4	10	....	1	6	14	3	....	....	1	4	3	2	3	....	8	5	39	3	13	1	160B
6	6	3	....	....	6	1	1	4	2	3	3	1	3	1	3	2	33	1	1	1	161
4	4	3	....	....	1	....	....	2	2	1	1	....	....	1	....	2	16	1	1	....	161A
....	1	....	....	....	2	....	....	....	....	....	....	1	1	....	1	....	2	....	....	....	161B
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	161C
2	1	....	....	....	3	1	1	2	....	2	2	....	2	....	1	....	15	....	....	1	161E
2	28	4	....	2	21	1	2	11	2	2	2	....	....	1	1	....	41	1	2	5	
2	28	4	....	2	21	1	2	11	2	2	2	....	....	1	1	....	41	1	2	5	162
2	20	1	....	2	6	1	....	....	1	1	2	....	....	....	1	....	14	1	....	....	162A
....	8	3	....	....	15	....	2	11	1	1	....	....	....	1	....	....	27	....	2	5	162B
25	58	15	13	12	80	18	8	22	21	26	13	23	18	24	26	13	415	11	65	15	
2	6	1	2	2	7	....	....	4	3	3	1	....	4	1	1	3	87	1	10	2	163–171
1	3	....	....	....	5	....	....	1	1	3	....	....	....	1	1	1	22	....	2	....	163
1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	21	....	2	....	164
....	3	....	....	....	....	....	....	....	2	....	....	....	2	....	....	....	9	....	2	1	165
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	5	1	2	1	166
....	....	1	1	1	1	....	....	1	....	....	....	....	....	....	....	....	10	....	....	....	167
....	....	....	....	....	1	....	....	....	....	....	1	....	1	....	....	1	4	....	1	....	168
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	16	....	1	....	169
....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	170
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	171
....	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	7	1	3	....	173–175
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	173

TABLE 41—CAUSES OF DEATH FOR CITIES, TOWNS AND VILLAGES

CAUSES OF DEATH	Total	Belleville	Brantford	Chatham	Cornwall	Forest Hill	Fort William	Galt	Guelph	Hamilton	Kingston	Kirkland Lake
174. Homicide by cutting or piercing instruments	1	....	....	....	....	....	1	....	....	....	....	....
175. Homicide by other means	16	....	1	....	1	....	1	....	....	....	....	....
176–198. Other violent deaths	1036	18	27	30	18	1	13	10	13	89	30	20
176. Attack by venomous animals	1	....	....	....	....	....	....	....	....	....	....	....
177. Food poisoning	2	....	....	....	....	....	....	....	....	....	....	....
178. Accidental absorption of toxic gases	14	....	....	....	....	....	....	....	1	....	....	....
179. Other acute accidental poisonings (except by gas)	17	....	1	....	1	....	....	....	....	1	1	1
180. Conflagration	16	....	....	1	....	....	....	....	....	....	....	1
181. Accidental burns (conflagration excepted)	71	2	4	3	3	....	....	....	1	3	2	1
182. Accidental mechanical suffocation	23	....	....	....	....	....	....	....	1	2	....	....
183. Accidental drowning	44	....	2	2	....	....	3	1	....	3	3	....
184. Accidental injury by firearms	10	....	....	....	2	....	....	....	....	1	1	....
185. Accidental injury by cutting or piercing instruments	10	....	1	1	1	....	....	....	....	1	....	....
186. Accidental injury by fall, crushing or landslide	754	14	17	21	9	1	9	7	10	71	18	17
188. Injuries by animals	6	....	....	....	....	....	....	....	....	....	1	....
190. Excessive cold	5	....	....	....	....	....	....	....	....	....	1	....
191. Excessive heat	15	....	1	1	1	....	....	....	....	2	....	....
193. Accidents due to electric currents	6	....	....	....	....	....	....	....	....	....	1	....
194. Other accidents	29	2	1	1	....	....	1	2	....	4	....	....
194A. Foreign body	3	1	....	....	....	....	1	....	....	....	....	....
194B. Others under this title	26	1	1	1	....	....	....	2	....	4	....	....
195. Violent deaths of which the nature (accident, suicide, homicide) is unknown	11	....	....	....	1	....	....	....	....	1	2	....
198. Capital punishment	2	....	....	....	....	....	....	....	....	....	....	....
CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH												
Total	12	1	....	2	1	....	....	....	....	1	....	....
199. Sudden death	7	....	....	1	1	....	....	....	....	....	....	....
200. Cause of death not specified or ill-defined	5	1	....	1	....	....	....	....	....	1	....	....

SPECIAL CLASSES OF ACCIDENTAL DEATHS FOR

(Included also under the numbers of the

	Total	Belleville	Brantford	Chatham	Cornwall	Forest Hill	Fort William	Galt	Guelph	Hamilton	Kingston	Kirkland Lake
A. Accidents in mines and quarries	17	....	....	....	....	....	....	....	....	....	....	9
B. Accidents caused by machines	20	....	2	1	1	....	....	....	1	2	1	....
C. Railway accidents	22	3	....	....	....	....	1	....	....	2	....	....
D. Street-car accidents	9	....	....	....	....	....	....	....	....	1	....	....
E. Automobile and motorcycle accidents	338	8	9	12	4	....	6	5	3	33	7	6
F. Other land transportation	13	....	....	1	....	....	1	....	....	1	1	....
G. Water transportation	11	....	....	....	....	....	2	....	....	3	....	....
H. Air transportation	1	....	....	....	....	....	....	....	....	1	....	....

OF 10,000 POPULATION AND OVER—ONTARIO, 1938—Continued

Kitchener	London	Niagara Falls	North Bay	Oshawa	Ottawa	Owen Sound	Pembroke	Peterborough	Port Arthur	St. Catharines	St. Thomas	Sarnia	Sault Ste. Marie	Stratford	Sudbury	Timmins	Toronto	Welland	Windsor	Woodstock	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	174
....	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	6	1	3	....	175
23	51	14	11	10	71	18	8	18	18	23	12	23	14	23	25	10	321	9	52	13	176–198
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	176
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	177
....	2	....	....	....	....	1	....	....	....	1	....	....	....	....	....	1	7	....	1	....	178
....	1	....	1	....	1	1	1	....	....	....	....	....	1	....	....	....	6	....	....	....	179
....	....	1	1	....	4	....	1	....	....	....	....	....	....	....	1	....	5	....	1	....	180
1	5	2	....	....	4	1	....	2	1	1	....	....	2	....	3	....	18	....	7	5	181
....	....	....	1	1	....	....	....	....	....	....	....	1	....	1	2	2	10	....	1	1	182
....	3	1	....	....	5	....	1	....	....	1	....	....	1	1	3	1	11	1	1	....	183
1	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	3	....	....	....	184
....	....	....	2	....	2	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	185
20	39	7	4	9	51	10	5	15	12	19	10	21	9	20	11	6	243	8	36	5	186
....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	1	....	....	....	1	1	188
....	....	....	1	....	....	1	....	....	....	1	....	....	....	....	....	....	1	....	....	....	190
....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	7	....	1	....	191
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	3	....	1	....	193
1	....	....	1	....	1	2	....	....	1	....	1	1	1	....	2	....	4	....	2	1	194
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	194A
1	....	....	1	....	1	2	....	....	1	....	....	1	1	....	2	....	4	....	2	1	194B
....	....	3	....	....	1	....	....	....	2	....	....	....	....	....	....	....	1	....	....	....	195
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	198
....	....	1	....	....	2	....	....	....	....	1	....	....	....	....	....	....	2	....	1	....	
....	....	1	....	....	2	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	199
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	200

CITIES, TOWNS AND VILLAGES OF 10,000 POPULATION AND OVER

International List above), ONTARIO, 1938

....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	2	4	1	....	....	....	A
....	....	....	....	....	2	....	....	....	1	1	....	....	....	....	....	....	6	1	....	1	B
....	1	....	....	....	1	....	1	2	1	....	....	1	2	1	....	....	4	1	1	....	C
....	....	....	....	....	1	....	....	....	2	....	....	....	....	....	....	....	5	....	....	....	D
8	16	5	4	4	23	3	1	6	4	10	5	5	4	8	5	2	107	3	18	4	E
1	1	....	....	....	....	1	1	....	....	1	....	....	....	1	....	....	3	....	....	....	F
....	....	1	....	....	1	....	....	....	....	1	....	1	....	....	....	....	1	....	1	....	G
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	H

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton	Lanark
Total	**36,890**	**63**	**455**	**672**	**481**	**2,000**	**515**	**187**	**154**	**308**	**506**	**1,321**	**744**	**204**	**201**	**679**	**204**	**55**	**225**	**650**	**530**	**238**	**740**	**624**	**381**
CLASS 1.—INFECTIOUS AND PARASITIC DISEASES																									
Total	2441	5	40	48	24	159	58	12	8	22	18	90	45	29	11	49	10	2	11	27	23	44	32	28	24
1. Typhoid fever	35	..	...	...	...	3	2	..	..	...	...	4	...	..	..	...	...	..	1	1	1	..	...	1	...
2. Paratyphoid fever	4	..	...	...	...	...	1	..	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	...	...
5. Undulant fever	2	..	...	...	...	...	..	..	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	...	...
7. Measles	31	..	1	2	...	...	..	..	..	...	...	7	...	..	..	...	...	..	...	...	...	..	1	1	...
8. Scarlet fever	49	..	2	1	1	2	3	..	..	...	1	1	...	..	..	...	...	..	1	1	...	..	2	1	...
9. Whooping-cough	88	..	1	4	3	1	1	..	..	...	1	5	1	..	..	4	1	..	1	2	...	3	3	...	...
10. Diphtheria	11	..	...	...	...	4	..	..	..	...	...	2	...	..	..	...	...	..	...	1	...	..	...	...	...
11. Influenza	618	2	11	5	11	29	4	10	4	12	10	21	14	3	3	31	1	2	5	11	12	7	11	11	10
11A. Sole cause	38	..	...	1	...	1	..	..	..	...	...	1	...	..	..	4	...	..	1	...	1	2	...	...	...
11B. With bronchitis	29	1	...	...	...	2	..	..	..	...	...	1	...	..	..	3	...	..	...	...	...	..	...	1	...
11C. With pneumonia	302	..	7	2	6	16	2	8	2	5	8	14	5	2	2	12	...	2	2	4	6	4	7	3	7
11D. With other diseases of the respiratory system	36	..	1	...	1	2	..	1	1	2	1	...	1	..	..	2	...	..	1	1	1	..	...	...	1
11E. With intestinal complications	53	..	1	1	2	...	1	..	..	1	...	3	1	1	..	3	...	..	...	4	1	..	1	1	...
11F. With other causes	160	1	2	1	2	8	1	1	1	4	1	2	7	..	1	7	1	..	1	2	3	1	3	6	2
13. Dysentery	36	1	1	...	...	1	4	..	..	...	...	1	...	..	..	2	...	..	...	...	1	..	...	...	...
15. Erysipelas	34	..	...	2	...	3	..	1	..	1	...	1	1	1	..	...	...	..	...	...	...	..	1	...	...
16. Poliomyelitis and polioencephalitis (acute)	25	..	...	...	...	...	..	..	1	...	...	2	...	..	..	...	1	..	...	...	...	1	1	...	1
17. Lethargic or epidemic encephalitis	14	..	...	...	...	...	..	..	..	...	...	...	1	..	..	1	...	..	...	...	...	1	1	...	...
18. Epidemic cerebrospinal meningitis	16	..	...	...	...	1	..	..	..	...	...	1	...	..	..	...	...	..	...	...	...	1	...	...	...
22. Tetanus	13	..	...	1	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	1	1	..	1	1	...
23–32. Tuberculosis	1237	2	23	28	9	91	35	..	1	8	6	31	21	24	7	9	6	..	3	7	8	28	7	11	11
23. Tuberculosis of the respiratory system	1070	2	19	26	7	79	24	..	1	6	5	26	14	23	6	6	4	..	3	6	6	22	5	10	11
24. Tuberculosis of the meninges and central nervous system	65	..	2	1	2	7	8	..	..	1	1	3	1	..	..	1	1	..	...	...	...	5	...	...	...
25. Tuberculosis of the intestines and peritoneum	25	..	1	...	...	2	2	..	..	...	...	...	2	..	..	...	...	..	...	1	...	1	1	1	...
26. Tuberculosis of the vertebral column	25	..	1	...	...	2	..	..	..	...	...	1	...	1	..	1	1	..	...	...	...	..	...	...	...
27. Tuberculosis of the bones and joints (vertebral column excepted)	6	..	...	...	...	...	..	..	..	...	...	...	...	..	1	...	...	..	...	...	...	..	...	...	...
27A. Of bones	1	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
27B. Of joints	5	..	...	...	...	...	..	..	..	...	...	...	...	..	1	...	...	..	...	...	...	..	...	...	...
28. Tuberculosis of the skin and sub-cutaneous cellu-tissue	1	..	...	...	...	...	..	..	..	...	...	...	...	..	..	1	...	..	...	...	...	..	...	...	...
29. Tuberculosis of the lymphatic system (bronchial, mesenteric and retroperitoneal glands excepted)	2	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	1	..	...	...	...
30. Tuberculosis of the genito-urinary system	19	..	...	1	...	1	1	..	..	...	...	1	1	..	..	...	...	..	...	...	1	..	1	...	...
31. Tuberculosis of other organs	4	..	...	...	...	...	..	..	..	...	...	...	1	..	..	...	...	..	...	...	...	..	...	...	...
32. Disseminated tuberculosis	20	..	...	...	...	...	..	..	..	1	...	...	2	..	..	...	...	..	...	...	...	..	...	...	...
32A. Acute	7	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
32B. Chronic	1	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
32C. Not specified	12	..	...	...	...	...	..	..	..	1	...	...	2	..	..	...	...	..	...	...	...	..	...	...	...
34. Syphilis	160	..	1	5	...	18	7	1	2	...	...	8	5	..	..	1	1	..	...	1	...	1	3	2	1
35. Gonococcus infection and other venereal diseases	5	..	...	...	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	1	...	..	...	...	...
36. Purulent infection, septicaemia (non-puerperal)	32	..	...	...	...	1	..	..	..	1	...	3	...	..	1	...	...	..	...	1	...	..	...	...	1
38. Malaria	3	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	1	...	...	...
39. Other diseases due to protozoal parasites	6	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	1	...	...
41. Hydatid cysts	1	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
41A. Of the liver	1	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
489	108	613	136	1,615	278	408	386	357	625	636	238	249	534	548	242	233	158	516	139	1,052	381	618	585	379	321	932	754	699	2,049	8,475	
22	6	34	34	126	65	26	18	9	32	24	21	15	18	17	28	13	18	42	9	46	27	57	62	41	22	44	38	31	194	483	
...	...	...	...	1	...	...	...	1	...	2	...	...	...	...	...	...	2	...	...	2	...	1	1	2	...	2	2	...	4	2	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	2
...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
...	...	...	...	2	...	1	2	...	3	1	...	...	...	...	...	...	...	...	...	2	...	1	...	1	...	...	...	1	5	...	7
...	...	3	1	...	...	2	...	1	1	...	...	...	...	2	1	...	...	1	1	...	...	4	...	2	...	1	1	...	1	11	8
...	...	...	...	2	3	4	...	...	1	1	1	1	...	...	...	...	1	5	...	4	1	6	...	1	1	2	5	...	3	15	9
...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	2	10
13	1	9	19	16	1	3	10	2	10	12	17	7	10	8	9	6	7	14	2	15	7	10	2	8	14	11	15	17	26	77	11
1	...	...	4	...	...	1	...	...	...	...	4	...	...	...	1	...	5	1	...	...	...	...	...	...	...	1	2	...	3	4	11A
1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...	1	...	1	...	...	...	...	1	...	1	3	...	6	11B
6	...	7	1	8	1	...	6	...	6	6	9	4	3	4	5	3	...	7	1	7	6	2	2	4	8	6	9	6	16	33	11C
...	...	1	...	2	...	...	1	...	...	1	...	...	...	2	1	2	1	...	...	1	...	1	...	...	...	1	...	...	2	4	11D
2	...	...	3	1	...	1	1	...	...	...	1	...	2	...	...	1	1	1	...	3	1	2	...	2	3	...	1	1	1	4	11E
3	...	1	11	5	...	1	2	2	3	4	2	2	4	1	2	...	...	4	1	3	...	5	...	2	2	3	2	7	4	26	11F
1	...	...	1	1	...	1	...	...	...	...	...	1	1	...	...	1	1	3	...	4	...	1	...	...	1	...	...	2	...	6	13
...	...	...	...	...	...	1	...	...	1	2	...	2	2	1	...	1	...	...	...	...	1	2	...	...	...	...	1	1	2	6	15
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	...	...	...	...	...	5	4	16
...	...	...	...	3	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...	2	...	...	...	...	1	...	...	1	17
...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	3	...	1	...	...	1	...	2	2	18
1	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	22
4	3	20	13	86	60	8	3	4	13	5	3	4	4	5	17	1	5	16	6	15	15	21	44	23	6	27	8	7	132	283	23–32
2	2	15	13	76	60	5	2	2	11	2	2	4	3	4	16	1	5	13	6	11	14	17	36	23	6	23	6	6	130	243	23
...	1	...	...	3	...	2	...	...	1	...	...	...	...	...	1	...	...	1	...	2	1	1	4	...	...	2	1	...	...	12	24
1	...	1	...	2	...	...	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	3	25
...	...	1	...	2	...	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	8	26
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	...	...	...	1	27
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	27A
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	27B
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
...	...	1	...	...	...	...	...	...	...	1	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	7	30
...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	31
...	...	1	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	1	...	...	1	8	32
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	4	32A
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	32B
...	...	1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	4	32C
2	2	2	...	10	1	...	2	...	2	...	...	...	1	...	...	1	...	...	...	2	1	6	7	1	...	...	3	1	8	51	33
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	34
...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	1	2	4	13	36
...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	38
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	39
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	41
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	41A

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton	Lanark
42 Other diseases caused by Helminths																									
43. Mycoses	5	..	...	...	...	2	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	1	...	...	...
44. Other infectious or parasitic diseases	16	..	...	...	...	1	1	..	..	...	...	1	2	1	..	1	...	..	...	...	...	..	...	...	...
44A. Chicken-pox	3	..	...	...	...	1	..	..	..	...	...	1	1	..	..	...	...	..	...	...	...	..	...	...	...
44C Others under this title	13	..	...	...	...	...	1	..	..	...	...	...	1	1	..	1	...	..	...	...	...	..	...	...	...
CLASS 11.—CANCER AND OTHER TUMOURS																									
Total	4780	8	50	87	62	292	29	16	18	29	59	170	122	21	28	82	26	6	31	78	68	18	89	68	51
45–53. Cancer and other malignant tumours	4472	7	46	79	62	268	27	16	16	29	54	159	120	20	28	78	25	6	29	75	60	15	86	63	48
45. Cancer of the buccal cavity and pharynx	157	..	2	2	2	14	1	..	..	...	2	2	8	1	3	1	3	1	2	2	1	..	3	3	3
46. Cancer of the digestive tract and peritoneum	2227	5	23	35	36	119	14	8	9	12	27	77	51	8	12	40	15	3	15	38	39	7	37	31	28
46A. Of the oesophagus	91	..	1	...	...	6	..	..	1	1	...	1	2	1	..	...	1	..	1	1	2	..	...	...	...
46B. Of the stomach and duodenum	859	1	8	10	15	43	9	4	1	8	10	33	15	3	8	17	3	2	6	14	18	1	15	14	9
46C. Of the rectum	253	..	3	3	5	15	1	1	..	1	1	12	5	3	1	7	1	..	3	2	3	..	5	5	1
46D. Of the liver and biliary ducts	266	2	2	5	5	12	1	2	1	...	5	8	7	..	1	6	5	1	1	7	5	2	9	2	7
46E. Of the pancreas	134	..	1	3	2	7	..	..	..	...	1	3	4	..	1	3	...	..	1	...	3	1	...	1	4
46F. Of the peritoneum	11	..	...	...	...	1	..	..	..	...	...	...	1	..	..	...	...	..	...	...	...	..	...	...	...
46G. Of other organs	613	2	8	14	9	35	3	1	6	2	10	20	17	1	1	7	5	..	3	14	8	3	8	9	7
47. Cancer of the respiratory organs	190	..	...	2	2	10	1	2	..	1	...	8	3	..	..	1	1	..	...	2	...	..	1	3	3
47A. Of the larynx	42	..	...	...	1	7	..	1	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	1	1
47B. Of the lung	110	..	...	1	1	1	..	1	..	1	...	5	1	..	..	1	1	..	...	2	...	..	1	2	2
47C. Of the mediastinum	13	..	...	...	...	...	..	..	..	...	...	2	...	..	..	...	...	..	...	...	...	..	...	...	...
47D. Of other organs of the respiratory system	25	..	...	1	...	2	1	..	..	...	...	2	...	..	..	...	...	..	...	...	...	..	...	...	...
48. Cancer of the uterus	381	..	4	14	5	22	2	..	2	1	7	16	10	3	2	7	2	..	1	10	1	1	9	4	...
48A. Of the uterus	241	..	2	11	5	13	1	..	1	1	5	7	5	3	1	7	1	..	...	9	...	1	8	3	...
48B. Of the cervix uteri	140	..	2	3	...	9	1	..	1	...	2	9	5	..	1	...	1	..	1	1	1	..	1	1	...
49. Cancer of other female genital organs	135	..	2	2	...	10	..	..	1	1	2	7	2	1	..	1	1	..	1	2	...	1	5	1	2
50. Cancer of the breast	496	1	3	8	6	29	3	2	..	4	10	18	16	3	2	5	3	..	2	7	4	2	11	7	4
51. Cancer of the male genito-urinary organs	399	..	4	6	5	29	2	1	2	6	1	14	14	4	6	11	...	..	5	10	6	..	11	6	7
51A. Of the bladder	107	..	1	1	2	8	1	..	1	1	...	6	1	1	1	3	...	..	4	4	...	..	1	3	3
51B. Of the kidney	25	..	...	1	...	...	..	..	1	...	1	1	1	1	..	...	...	..	1	...	1	..	...	...	...
51C. Of the prostate gland	249	..	3	4	3	20	1	1	..	4	...	7	12	1	5	8	...	..	...	6	5	..	10	3	4
51D. Of the testicles and annexa	13	..	...	...	...	1	..	..	..	1	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
51E. Of other male genito-urinary organs	5	..	...	...	...	...	..	..	..	...	...	...	...	1	..	...	...	..	...	...	...	..	...	...	...
52. Cancer of the skin	83	..	1	1	...	3	..	1	1	2	2	4	2	..	..	3	...	1	...	...	4	1	1	4	...
53. Cancer of other or unspecified organs	404	1	7	9	6	32	4	2	1	2	3	13	14	..	3	9	...	1	3	4	5	3	8	4	1
53A. Of the eye and orbit	11	..	...	...	...	...	1	..	..	...	1	...	1	..	..	...	...	..	...	...	...	..	1	...	...
53C. Of the glandular system	75	1	1	2	2	7	..	1	..	...	1	3	3	..	1	...	...	..	...	2	1	..	...	...	...
53D. Of the female urinary organs	62	..	1	2	1	9	1	1	..	...	...	3	1	..	..	3	...	..	1	1	1	1	1	...	...
53E. Of the bones and joints	49	..	3	1	...	4	..	..	..	1	...	1	...	..	..	1	...	..	1	1	...	1	...	1	...
53F. Of the brain	84	..	1	1	...	5	1	..	..	...	...	3	5	..	..	2	...	..	...	...	2	..	3	2	...
53G. Of the spine and spinal cord	21	..	...	...	1	2	1	..	1	...	...	1	...	..	..	1	...	..	...	...	...	..	...	...	...
53H. Of the neck	6	..	...	...	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	...	1	..	1	...	...
53I. Of the abdomen	31	..	...	...	...	1	..	..	..	...	1	...	1	..	..	...	...	..	1	...	...	1	1	...	1
53J. Of other specified organs	35	..	1	2	2	2	..	..	..	1	...	...	2	..	2	...	...	1	...	...	...	..	1	1	...
53K. Multiple cancer	17	..	...	...	...	...	..	..	..	...	...	2	1	..	..	2	...	..	...	...	...	..	...	...	...
53M. Of unspecified or unknown location	13	..	...	1	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
54. Non-malignant tumours	261	..	4	7	...	23	2	..	1	...	5	11	2	1	..	3	1	..	2	3	8	3	2	3	1
54A. Of the ovary	42	..	...	2	...	3	..	..	..	...	1	2	1	..	..	1	...	..	...	1	1	..	1	1	...
54B. Of the uterus	44	..	1	1	...	3	1	..	..	...	...	3	...	..	..	...	...	..	...	2	...	..	...	1	1
54D. Of the brain	40	..	1	2	...	2	..	..	..	...	...	1	...	..	..	...	...	..	1	...	...	1	...	...	...
54E. Of the thyroid gland	62	..	2	1	...	6	1	..	1	...	1	3	1	..	..	1	...	..	1	...	4	..	...	...	...
54F. Of the prostate gland	29	..	...	...	...	7	..	..	..	...	2	...	...	..	..	...	...	..	...	...	2	1	1	1	...
54G. Of other or unspecified sites	44	..	...	1	...	2	..	..	..	...	1	2	...	1	..	1	1	..	...	...	1	1	...	...	...
55. Tumours, nature not specified	47	1	...	1	.	1..	..	..	1	...	...	...	...	..	..	1	...	..	...	...	...	..	1	2	2

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	1	...	...	...	..	...	...	...	...	...	1	43
1	..	...	..	1	..	1	...	...	...	...	..	...	...	...	..	..	..	...	..	...	1	...	...	..	...	1	...	...	1	3	44
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	....	44A
1	..	...	..	1	..	1	...	...	...	...	..	...	...	...	..	..	..	...	..	...	1	...	...	..	...	1	...	...	1	3	44C
56	15	79	3	210	29	46	48	37	60	85	21	31	71	65	17	28	7	63	12	113	33	34	72	30	47	139	86	104	253	1378	
53	13	76	3	194	29	43	45	35	57	77	19	29	65	59	15	28	7	59	12	107	29	32	71	26	46	129	77	95	233	1293	45–53
2	..	2	..	6	1	1	2	...	3	2	2	1	2	3	1	1	..	...	1	5	...	1	2	3	...	5	...	3	9	43	45
22	5	46	..	101	16	24	21	21	31	47	8	12	34	32	7	12	4	39	6	62	16	16	35	11	26	69	35	45	115	620	46
2	..	2	..	3	1	...	1	1	2	...	..	...	...	3	..	..	..	1	..	...	...	...	3	1	2	3	...	1	8	39	46A
5	2	15	..	36	10	15	9	11	16	18	4	5	17	10	4	8	3	18	3	32	5	10	15	6	9	31	14	13	31	217	46B
4	1	6	..	16	1	4	1	2	1	6	..	3	3	6	..	..	..	6	..	6	2	1	1	1	1	4	3	5	19	72	46C
4	1	5	..	8	..	...	4	2	6	7	1	1	2	3	1	..	..	1	1	8	3	2	4	..	8	8	7	3	10	70	46D
...	1	2	..	7	..	1	1	1	1	5	..	...	...	...	..	..	..	4	..	3	1	1	4	1	2	6	3	3	9	43	46E
...	..	...	..	...	..	...	...	...	1	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	2	6	46F
7	..	16	..	31	4	4	5	4	4	11	3	3	12	10	2	4	1	9	2	13	5	2	8	2	4	17	8	20	36	173	46G
1	..	4	..	10	3	2	1	1	4	2	2	2	2	1	1	1	..	...	1	...	2	...	4	2	...	1	1	4	19	79	47
...	..	1	..	2	1	...	...	...	...	2	..	...	...	...	..	..	..	...	..	...	1	...	...	..	...	...	...	...	5	18	47A
...	..	3	..	5	1	1	1	1	3	...	1	2	2	1	1	1	..	...	1	...	...	...	2	2	...	1	...	4	13	44	47B
...	..	...	..	2	..	1	...	...	...	...	1	...	...	...	..	..	..	...	..	...	1	...	1	..	...	...	1	...	...	4	47C
1	..	...	..	1	1	...	...	...	1	...	..	...	...	...	..	..	..	...	..	...	...	...	1	..	...	...	...	...	1	13	47D
5	..	5	1	12	2	2	8	1	1	4	2	3	8	1	1	5	..	3	1	5	1	1	12	2	4	4	7	11	21	125	48
4	..	3	1	7	1	2	6	1	1	3	2	3	6	1	1	5	..	2	1	3	...	1	8	2	3	3	3	9	12	63	48A
1	..	2	..	5	1	...	2	...	...	1	..	...	2	...	..	..	..	1	..	2	1	...	4	..	1	1	4	2	9	62	48B
1	..	3	..	4	1	...	2	1	1	1	..	...	1	1	..	1	..	1	..	4	1	...	...	3	2	2	2	3	10	48	49
7	3	6	1	23	4	8	5	4	9	8	1	4	6	10	2	4	..	7	..	12	1	6	7	2	2	26	6	10	18	144	50
5	1	4	..	17	1	3	3	3	4	7	1	4	3	5	..	2	1	3	2	6	4	2	2	..	4	10	17	9	19	107	51
1	..	1	..	3	..	...	1	...	...	1	1	1	...	...	..	..	..	...	..	1	2	1	...	..	1	2	2	4	8	35	51A
1	..	1	..	1	..	...	...	...	...	1	..	...	...	1	..	..	..	...	..	1	...	...	...	..	...	2	...	...	1	8	51B
3	..	2	..	10	1	3	2	3	4	5	..	3	3	4	..	2	1	2	2	4	2	1	1	..	2	5	13	4	10	60	51C
...	..	...	..	3	..	...	...	...	...	...	..	...	...	...	..	..	..	1	..	...	...	...	1	..	1	1	...	1	...	3	51D
...	1	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	2	...	...	1	51E
2	3	...	1	2	..	1	1	1	1	...	..	1	1	1	1	..	1	...	1	4	2	1	2	1	...	5	2	2	5	10	52
8	1	6	..	19	1	2	2	3	3	6	3	2	8	5	2	2	1	6	..	9	2	5	7	2	8	7	7	8	17	117	53
...	..	...	..	1	..	...	...	...	...	...	..	...	1	...	..	..	..	1	..	1	...	...	...	..	...	...	...	...	...	3	53A
1	..	1	..	4	..	1	1	...	...	3	..	1	2	1	1	1	..	1	..	1	1	3	1	..	1	1	2	2	...	20	53C
...	..	...	..	2	..	...	1	1	1	...	..	...	1	...	..	1	..	2	..	2	...	...	3	..	2	1	...	...	5	13	53D
3	..	...	..	2	..	...	...	1	...	...	2	...	1	1	..	..	..	...	..	1	...	...	1	..	3	1	1	3	1	13	53E
2	..	4	..	4	..	1	...	...	1	1	..	...	1	3	1	..	..	...	..	...	...	1	...	1	...	4	...	...	4	31	53F
...	..	1	..	...	..	...	...	...	...	1	..	...	1	...	..	..	..	...	..	2	...	...	...	..	...	...	1	1	...	7	53G
...	..	...	..	1	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	1	...	...	...	...	1	53H
1	1	...	..	1	..	...	...	1	1	...	..	...	1	...	..	..	..	...	..	...	...	1	...	..	...	...	1	...	3	13	53I
1	..	...	..	3	..	...	...	...	...	...	1	1	...	...	..	..	..	...	..	2	...	...	1	1	...	...	2	1	2	5	53J
...	..	...	..	...	1	...	...	...	...	1	..	...	...	...	..	..	..	1	..	...	...	...	1	..	1	...	...	...	1	6	53K
...	..	...	..	1	..	...	...	...	...	...	..	...	...	...	..	..	1	1	..	...	1	...	...	..	...	...	...	1	1	5	53M
2	1	3	..	16	..	3	3	2	2	6	1	2	5	4	2	..	..	2	..	6	4	1	1	3	1	8	9	9	12	71	54
1	1	1	..	3	..	2	...	1	...	...	..	...	2	...	..	..	..	1	..	...	2	...	...	1	...	1	...	3	1	8	54A
...	..	1	..	3	..	...	1	...	1	4	..	1	...	1	..	..	..	...	..	3	...	...	1	1	...	1	2	...	1	10	54B
...	..	...	..	3	..	...	...	1	1	1	1	...	...	1	1	..	..	...	..	1	1	...	...	..	...	1	1	1	2	16	54D
...	..	...	..	4	..	1	2	...	...	1	..	1	3	...	..	..	..	...	..	2	1	1	...	..	...	2	4	5	3	10	54E
...	..	...	..	2	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	13	54F
1	..	1	..	1	..	...	...	...	...	...	..	...	...	2	1	..	..	1	..	...	...	...	...	1	1	3	2	...	5	14	54G
1	1	...	..	...	..	...	...	...	1	2	1	...	1	2	..	..	..	2	..	...	...	1	...	1	...	2	...	...	8	14	55

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton	Lanark
55B. Of the uterus	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
55D. Of the brain	26	1	...	...	...	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	1	2	1
55G. Of other or unspecified sites	20	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES																									
Total	1095	1	16	20	16	67	15	3	8	12	11	44	16	4	2	20	6	1	12	9	12	3	19	18	7
56. Acute rheumatic fever	165	...	3	2	1	13	3	...	1	1	1	4	4	...	...	2	...	...	2	3	...	...	2	3	1
57. Chronic rheumatism, osteoarthritis	46	...	...	3	...	1	2	...	...	...	...	2	...	2	...	1	1	...	1	...	3	...	...	...	...
59. Diabetes mellitus	584	1	6	11	9	34	4	1	6	7	7	27	7	1	1	11	3	1	6	5	6	1	13	13	5
61. Beriberi	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
62. Pellagra	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
63. Rickets	15	...	1	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	...
64. Osteomalacia	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
65. Diseases of the pituitary gland	8	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
66. Diseases of the thyroid and parathyroid glands	189	...	4	4	3	13	3	1	1	3	2	6	5	1	1	4	2	...	2	1	2	1	1	1	...
66A. Simple goitre	24	...	3	1	...	1	...	...	1	...	1	...	1	...	...	...	1	...	...	...	1	...	...	...	...
66B. Exophthalmic goitre	140	...	1	2	2	9	3	1	...	1	1	4	4	1	1	4	1	...	1	1	1	1	1	1	...
66C. Myxoedema, cretinism	10	...	...	...	1	2	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...	...
66D. Tetany	10	...	...	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
66E. Others under this title	5	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
67. Diseases of the thymus gland	45	...	...	...	1	4	2	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	2	...	1
68. Diseases of the adrenals (Addison's disease)	7	...	1	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
69. Other general diseases	33	...	1	...	2	2	...	...	...	1	...	...	...	...	...	1	...	...	1	...	...	...	1	1	...
69A. Fatty or amyloid degeneration	15	...	...	...	2	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
69C. Others under this title	18	...	1	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	1	1	...
CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS																									
Total	500	1	9	4	5	30	5	3	1	8	10	10	7	1	1	8	4	2	2	12	6	...	13	7	8
70. Haemorrhagic conditions	16	...	...	...	...	2	1	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	3	...	...
70A. Simple purpura	12	...	...	...	...	2	1	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	2	...	...
70B. Haemophilia	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
71. Anaemia	309	1	5	3	4	19	2	3	1	7	8	5	6	1	...	6	3	2	1	11	3	...	7	7	6
71A. Pernicious anaemia	271	1	5	2	4	18	1	3	1	6	8	5	5	1	...	5	3	1	1	8	2	...	6	7	6
71B. Others under this title	38	...	...	1	...	1	1	...	...	1	...	...	1	...	...	1	...	1	...	3	1	...	1	...	...
72. Leukaemia and aleukaemia	150	...	4	1	1	7	2	...	...	...	1	4	1	...	1	1	1	...	1	1	2	...	2	...	2
72A. Leukaemia	115	...	2	1	1	6	1	...	...	...	1	2	1	...	1	1	...	...	1	1	2	...	2	...	2
72B. Aleukaemia (Hodgkin's disease)	35	...	2	...	...	1	1	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...	...
73. Diseases of the spleen	21	...	...	...	...	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...
74. Other diseases of the blood and blood-forming organs	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS																									
Total	65	...	1	3	1	4	4	...	...	...	...	...	...	...	...	1	1	...	...	2	1	3	2	2	...
75. Alcoholism	58	...	1	2	1	2	4	...	...	...	...	...	...	...	...	1	...	...	...	2	1	2	2	2	...
75A. Delirium tremens	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
75B. Other alcoholic intoxications	54	...	1	1	1	2	4	...	...	...	...	...	...	...	...	1	...	...	...	2	1	2	2	1	...
76. Chronic poisoning, by other organic substances	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...
76A. Chronic morphinism	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
76B. Chronic cocainism	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
76D. Other organic poisoning	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	55B
...	...	...	...	...	...	...	...	...	...	2	1	...	1	1	...	...	...	1	...	...	...	...	...	1	...	1	...	...	3	7	55D
1	1	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	5	7	55G
11	1	18	3	45	5	16	10	8	15	20	6	6	19	14	10	7	3	16	1	29	13	22	21	11	9	36	18	28	61	271	
...	...	2	1	2	1	5	...	...	3	4	4	1	1	...	2	1	...	2	...	5	6	3	2	...	...	9	2	5	13	45	56
...	...	...	...	3	1	1	2	...	1	2	...	...	2	...	...	...	...	3	...	1	...	1	2	...	1	1	...	4	...	5	57
8	...	10	1	30	2	5	7	3	7	9	2	1	13	10	5	4	2	5	1	11	4	15	9	4	5	16	10	13	30	156	59
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	61
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	62
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	2	1	...	1	2	...	...	...	...	...	...	63
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	64
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	4	65
2	1	4	1	8	...	2	1	4	2	4	...	2	2	3	3	2	...	3	...	5	2	3	3	...	2	8	5	3	14	39	66
1	...	1	...	2	...	...	...	1	...	...	...	1	1	1	2	1	...	...	...	...	...	...	...	...	...	...	1	...	1	1	66A
1	1	3	1	6	...	1	...	3	2	3	...	1	1	2	...	1	...	3	...	5	2	3	2	...	2	8	3	2	13	30	66B
...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	66C
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	4	66D
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	2	66E
...	...	2	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	1	...	3	...	...	4	5	1	2	...	...	2	9	67
...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	68
...	...	...	...	2	...	2	...	...	1	1	...	...	1	1	...	...	...	...	...	2	...	...	...	...	...	...	1	1	2	9	69
...	...	...	...	2	...	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	3	69A
...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	6	69C
7	2	5	1	26	2	2	5	7	6	8	1	6	7	11	4	3	2	3	2	17	5	5	5	2	4	16	6	9	26	138	
...	...	...	...	...	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	3	70
...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	70A
...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	70B
5	1	2	1	17	1	...	3	6	4	7	1	6	5	5	4	3	2	3	1	15	3	1	2	1	4	9	2	6	15	63	71
3	1	2	1	15	1	...	3	5	3	7	1	4	5	5	2	2	2	3	1	14	3	1	2	1	3	8	2	4	13	55	71A
2	...	...	...	2	...	...	...	1	1	...	...	2	...	...	2	1	...	...	...	1	...	...	...	...	1	1	...	2	2	8	71B
1	1	2	...	9	...	2	2	...	2	1	...	...	1	4	...	...	...	...	1	1	2	3	3	1	...	6	4	3	6	63	72
1	1	1	...	6	...	2	2	...	2	...	...	...	1	3	...	...	...	...	1	1	1	3	3	...	...	4	4	2	5	47	72A
...	...	1	...	3	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	...	1	...	2	...	1	1	16	72B
1	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	1	...	1	...	...	...	...	...	...	3	7	73
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	74
...	...	...	...	7	...	...	...	...	2	1	1	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	1	...	5	20	
...	...	...	...	6	...	...	...	...	2	1	1	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	1	...	5	19	75
...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	75A
...	...	...	...	4	...	...	...	...	2	1	1	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	1	...	5	19	75B
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76A
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76B
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76D

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton	Lanark
77. Chronic poisoning by mineral substances.....	3	..	...	...	...	2	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
77A. Lead (including occupational)...............	2	..	...	...	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
77C. Others under this title...	1	..	...	...	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE																									
Total...............	1724	6	15	35	31	82	10	11	7	8	24	54	46	7	9	42	4	2	6	26	21	10	32	30	16
78. Encephalitis (non-epidemic).................	30	..	...	3	...	...	..	..	..	...	...	4	1	..	..	...	...	..	...	1	...	1	2	...	...
79. Simple meningitis........	48	..	2	...	...	5	1	..	1	...	...	1	1	..	..	...	...	..	...	1	...	2	...	...	...
80. Progressive locomotor ataxia (tabes dorsalis).	15	..	...	...	...	2	..	..	..	...	1	...	...	..	..	...	...	..	...	...	...	1	...	1	1
81. Diseases of the spinal cord	112	1	...	2	...	3	..	4	1	1	...	6	6	..	3	2	...	..	...	3	3	1	2	1	...
82. Cerebral haemorrhage, cerebral embolism and thrombosis...........	790	2	5	19	16	34	4	3	5	2	16	23	13	6	5	18	2	1	2	19	9	1	11	17	8
82A. Cerebral haemorrhage...	636	2	3	18	12	20	3	..	5	2	16	21	9	6	5	16	2	1	2	15	9	1	8	13	6
82B. Cerebral embolism and thrombosis...........	81	..	...	1	1	8	..	2	..	...	...	2	4	..	..	1	...	..	...	1	...	..	1	3	1
82C. Softening of the brain...	6	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
82D. Hemiplegia and other paralysis, cause not specified..............	67	..	2	...	3	6	1	1	..	...	...	...	...	..	..	1	...	..	...	3	...	..	2	1	1
83. General paralysis of the insane...............	63	1	...	...	1	1	..	2	..	...	...	...	3	..	..	1	...	..	...	...	...	..	2	1	...
84. Dementia praecox and other psychoses.......	156	..	2	1	1	5	..	..	..	1	...	...	9	..	..	4	...	..	...	...	2	1	...	1	...
84A. Dementia praecox......	125	..	1	...	1	2	..	..	..	...	...	...	9	..	..	...	...	..	...	...	1	..	...	...	...
84B. Other psychoses........	31	..	1	1	...	3	..	..	..	1	...	...	...	..	..	4	...	..	...	...	1	1	...	1	...
85. Epilepsy..................	73	..	1	2	3	1	..	..	..	1	...	1	3	..	..	...	...	..	1	1	3	..	...	2	1
86. Convulsions (under 5 years of age)..............	31	..	2	...	2	1	..	..	..	...	...	...	2	..	1	1	1	..	...	1	...		3..	2	...
87. Other diseases of the nervous system..........	284	2	1	5	8	17	1	2	..	2	4	11	3	1	..	14	1	1	3	...	3	..	12	3	6
87A. Chroea...............	3	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	1	...	...	...	..	...	...	...
87B. Neuralgia and neuritis...	23	..	...	1	...	2	..	..	..	...	...	...	...	..	..	1	...	..	...	...	1	..	1	...	...
87C. Paralysis agitans........	122	2	1	...	4	10	1	1	..	1	1	4	3	..	..	7	...	..	1	...	2	..	3	2	5
87D. Sclerosis (other than of the spinal cord).......	86	..	...	2	1	4	..	1	..	1	1	3	...	..	..	3	1	..	...	...	...	..	7	...	1
87E. Others under this title...	50	..	...	2	3	1	..	..	..	...	2	4	...	1	..	3	...	..	2	...	...	..	1	1	...
88. Diseases of the organs of vision...............	18	..	...	...	...	...	2	1	..	...	...	...	...	..	..	1	...	..	...	...	1	..	...	1	...
89. Diseases of the ear and mastoid process.......	104	..	2	3	...	11	3	..	..	1	3	8	5	..	..	1	...	..	...	...	...	..	3	1	...
89A. Otitis................	64	..	2	2	...	8	2	..	..	1	2	4	2	..	..	1	...	..	...	...	...	..	2	...	...
89B. Diseases of the mastoid process............	40	..	...	1	...	3	1	..	..	...	1	4	3	..	..	...	...	..	...	...	...	..	1	1	...
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM																									
Total...............	12296	21	124	232	180	613	81	70	51	125	211	395	216	72	78	249	95	18	98	220	215	43	256	248	133
90–95. Diseases of the heart..	7354	11	85	139	107	360	54	39	27	63	127	259	118	43	40	132	44	16	50	139	125	31	139	140	69
90. Pericarditis............	12	..	...	...	...	...	..	..	..	...	...	1	...	..	..	...	...	..	...	1	...	..	...	...	...
91. Acute endocarditis.......	81	..	...	2	...	2	2	..	..	...	1	4	...	..	..	...	...	..	...	...	1	1	...	2	...
91A. Endocarditis specified as acute...............	63	..	...	2	...	1	1	..	..	...	1	4	...	..	..	...	...	..	...	...	1	..	...	2	...
92B. Endocarditis, unspecified (under 45 years of age)	18	..	...	...	...	1	1	..	..	...	...	...	...	1	..	...	...	..	...	...	...	1	...	...	...
92. Chronic endocarditis, valvular diseases..........	1000	1	25	26	25	46	6	6	4	11	13	20	15	15	5	26	11	1	8	12	16	10	24	16	12
92A. Endocarditis specified as chronic and other valvular diseases...........	817	1	22	23	23	32	5	6	3	8	12	18	14	7	5	23	4	1	7	11	12	10	15	13	10
92B. Endocarditis, unspecified (45 years and over)....	183	..	3	3	2	14	1	..	1	3	1	2	1	8	..	3	7	..	1	1	4	..	9	3	2
93. Diseases of the myocardium...............	2205	5	33	28	35	118	14	11	9	22	33	70	29	16	7	43	15	9	13	56	41	5	49	45	24

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	1	77
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	1	77A
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	....	77C
20	7	36	5	108	3	12	21	25	61	40	13	14	25	26	8	10	3	21	3	36	14	15	13	20	11	35	28	35	89	433	
...	..	...	..	...	..	...	1	...	1	1	1	...	1	...	1	..	..	...	..	...	...	1	...	..	...	...	2	...	...	9	78
...	..	...	..	4	..	...	...	...	2	...	..	...	...	...	..	..	..	4	..	...	1	1	2	1	...	2	1	1	4	11	79
1	..	2	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	1	...	...	...	...	5	80
2	1	3	1	5	1	1	2	...	6	1	..	1	...	2	1	..	..	...	..	6	2	...	...	..	1	3	1	1	2	30	81
5	6	23	2	46	1	4	12	16	16	21	7	7	18	15	2	4	2	14	2	16	7	9	5	12	6	22	8	23	30	188	82
4	3	20	2	39	..	4	10	16	13	15	5	5	16	13	2	3	2	8	2	13	5	8	4	9	4	16	7	19	25	149	82A
...	1	2	..	3	..	...	2	...	2	1	..	2	2	1	..	1	..	3	..	2	2	...	1	1	1	...	1	1	2	25	82B
...	1	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	1	...	...	1	...	3	82C
1	1	1	..	4	1	...	...	...	1	5	2	...	...	1	..	..	..	3	..	1	...	1	...	2	...	6	...	2	3	11	82
3	..	...	..	10	..	1	...	...	4	1	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	2	...	11	19	83
7	..	...	..	19	..	...	...	2	23	...	..	...	...	...	1	1	..	1	1	2	...	...	1	..	1	...	...	...	22	48	84
6	..	...	..	18	..	...	...	1	20	...	..	...	...	...	..	1	..	1	..	...	...	...	...	..	1	...	...	...	18	45	84A
1	..	...	..	1	..	...	...	1	3	...	..	...	...	...	1	..	..	...	1	2	...	...	1	..	...	...	...	...	4	3	84B
...	..	1	2	4	..	2	1	...	2	9	1	3	1	...	1	1	..	1	..	4	1	1	...	2	1	1	3	1	1	9	85
...	..	...	..	1	..	1	...	1	...	...	2	...	...	...	1	...	..	1	..	1	...	2	...	1	...	...	...	2	...	2	86
2	..	6	..	11	..	2	3	5	4	7	1	2	4	4	..	3	1	...	..	7	3	...	3	4	...	5	9	5	12	81	87
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	1	...	...	1	...	...	....	87A
...	..	...	..	...	..	...	...	1	...	...	..	1	...	1	..	..	..	...	..	...	1	...	1	..	...	...	1	1	1	9	87B
2	..	4	..	4	..	1	2	1	1	2	..	1	2	1	..	2	1	...	..	2	2	...	1	2	...	1	4	3	4	31	87C
...	..	2	..	7	..	1	...	2	1	3	..	...	2	1	..	1	..	...	..	1	...	...	...	1	...	3	2	...	6	28	87D
...	..	...	..	...	..	...	1	1	2	2	1	...	...	1	..	..	..	...	..	4	...	...	1	..	...	1	1	1	1	13	87E
...	..	1	..	...	..	...	...	...	...	...	..	1	...	2	..	..	..	...	..	...	...	...	...	..	...	...	...	...	3	5	88
...	..	...	..	8	1	1	2	1	3	...	1	...	1	3	1	1	..	...	..	...	...	1	2	..	1	2	2	2	4	26	89
...	..	...	..	4	1	1	1	1	3	...	1	...	1	2	1	1	..	...	..	...	...	1	...	..	...	2	1	1	2	14	89A
...	..	...	..	4	..	...	1	...	...	...	..	...	...	1	..	..	..	...	..	...	...	...	2	..	1	...	1	1	2	12	89B
197	45	188	42	516	88	102	122	141	226	215	81	93	210	199	55	84	32	160	45	368	112	131	138	79	117	312	269	246	689	2950	
109	32	112	26	307	46	74	68	85	128	127	50	56	132	122	39	48	18	97	27	211	68	97	101	59	72	176	149	163	343	1855	90–95
2	..	1	..	3	..	...	...	...	...	...	..	...	1	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	3	90
1	..	1	..	3	..	2	...	...	...	...	..	...	1	1	1	..	..	...	2	1	...	...	2	1	...	5	1	4	6	33	91
1	..	1	..	2	..	2	...	...	...	...	..	...	...	...	1	..	..	...	2	...	...	...	2	1	...	5	...	2	5	27	91A
...	..	...	..	1	..	...	...	...	...	...	..	...	1	1	..	..	..	...	..	1	...	...	...	..	...	...	1	2	1	6	91B
18	6	9	9	30	7	12	9	4	18	15	2	14	13	16	8	14	5	30	3	35	18	12	21	5	16	17	14	32	33	201	92
15	2	9	9	22	6	7	6	3	13	9	2	13	11	15	6	13	3	16	3	32	13	10	19	3	14	11	12	28	31	176	92A
3	4	...	..	8	1	5	3	1	5	6	..	1	2	1	2	1	2	14	..	3	5	2	2	2	2	6	2	4	2	25	92B
35	7	39	12	123	14	21	17	42	42	57	23	7	41	56	17	14	4	32	13	48	24	25	11	21	19	49	43	53	90	475	93

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton	Lanark
93A. Acute myocarditis	125	2	...	4	...	3	..	..	1	2	3	3	1	2	1	3	1	..	1	7	1	1	1	2	1
93B. Myocarditis, unspecified (under 45 years of age)	49	..	...	...	1	4	2	..	..	...	1	2	...	..	1	...	...	..	1	...	...	1	1	1	...
93C. Chronic myocarditis and myocardial degeneration	1299	2	12	18	24	65	6	8	4	14	22	37	22	4	4	28	9	6	1	31	28	2	31	31	13
93D. Myocarditis, unspecified (45 years and over)	732	2	21	6	10	46	6	3	4	6	7	28	6	10	1	12	5	3	10	18	12	1	16	11	10
94. Diseases of the coronary arteries and angina pectoris	3693	3	22	76	40	182	27	20	13	28	75	153	67	9	25	58	17	6	26	62	56	14	59	73	30
94A. Diseases of the coronary arteries	123	..	1	1	...	6	1	..	..	...	1	1	4	1	..	2	3	..	2	1	1	..	1	3	2
94B. Embolism and thrombosis of the coronary arteries	3166	3	10	69	34	161	24	19	8	26	58	135	54	2	24	51	12	4	20	52	50	11	51	63	24
94C. Angina pectoris	404	..	11	6	6	15	2	1	5	2	16	17	9	6	1	5	2	2	4	9	5	3	7	7	4
95. Other diseases of the heart	363	1	5	7	7	12	5	2	1	2	5	11	7	2	3	5	1	..	3	8	11	1	7	4	3
95A. Functional diseases of the heart	66	..	...	...	...	4	..	..	1	1	4	3	1	..	..	...	...	..	...	1	2	..	1	1	1
95B. Other and unspecified	297	1	5	7	7	8	5	2	..	1	1	8	6	2	3	5	1	..	3	7	9	1	6	3	2
96. Aneurysm (except of the heart)	65	..	...	2	...	3	1	..	..	2	...	...	1	2	..	1	...	..	1	1	...	..	1	1	...
97. Arteriosclerosis (of coronary arteries excepted)	3871	9	32	69	60	191	13	27	19	49	76	103	87	23	35	91	45	1	40	59	64	9	88	92	54
98. Gangrene	112	..	...	2	1	14	2	1	..	3	1	2	4	..	..	9	1	..	...	2	5	..	2	4	...
99. Other diseases of the arteries	35	..	...	1	2	3	..	..	1	...	...	...	1	..	..	...	...	..	...	...	2	1	1	...	...
100. Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	74	..	...	4	1	1	1	1	..	1	1	2	1	..	..	1	1	..	...	2	...	..	3	3	...
101. Diseases of the lymphatic system (lymphangitis, etc.)	8	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	1	..	...	...	...
102. Idiopathic abnormalities of blood pressure	774	1	7	15	9	40	10	2	4	7	6	29	4	4	3	15	4	1	7	17	18	2	22	8	9
103. Other diseases of the circulatory system	3	..	...	...	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	1
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM																									
Total	3004	11	37	44	30	136	63	17	12	28	35	76	51	18	14	40	12	7	13	58	44	28	59	52	27
104. Diseases of the nasal fossae and annexa	41	..	...	...	1	...	1	1	1	...	...	...	2	1	..	...	...	..	...	2	1	1	...	...	...
105. Diseases of the larynx	24	..	...	...	...	2	2	..	..	...	...	2	1	..	..	...	...	..	...	1	...	..	...	...	...
105A. Croup	3	..	...	...	...	...	2	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
105B. Other diseases of the larynx	21	..	...	...	...	2	..	..	..	...	...	2	1	..	..	...	...	..	...	1	...	..	...	...	...
106. Bronchitis	88	..	...	1	2	5	1	..	..	...	1	...	3	1	..	2	...	1	...	1	1	1	1	4	2
106A. Acute	42	..	...	1	...	1	1	..	..	...	1	...	3	1	..	1	...	..	...	...	1	1	...	4	1
106B. Chronic	36	..	...	...	...	2	..	..	..	...	...	...	...	..	..	1	...	..	...	1	...	..	1	...	1
106C. Unspecified	10	..	...	...	2	2	..	..	..	...	...	...	...	..	..	...	...	1	...	...	...	..	...	...	...
107. Bronchopneumonia	1272	5	12	24	11	58	29	9	1	16	11	18	23	2	3	10	7	3	6	19	22	8	30	18	8
107A. Bronchopneumonia	1268	5	12	24	11	58	28	9	1	15	11	18	23	2	3	10	7	3	6	19	22	8	30	18	8
107B. Capillary bronchitis	4	..	...	...	...	...	1	..	..	1	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
108. Lobar pneumonia	956	4	17	14	9	50	19	..	8	7	10	33	13	8	4	17	1	1	5	21	12	4	21	22	14
109. Pneumonia, unspecified	267	1	4	1	3	11	6	3	..	1	9	13	4	3	2	3	2	..	1	10	2	12	5	2	2
110. Pleurisy	59	..	1	1	...	4	..	1	..	...	...	1	1	1	..	1	...	..	1	1	2	1	...	3	...
111. Congestion and haemorrhagic infarct of the lung, etc	76	..	1	...	...	2	1	2	1	1	2	1	2	..	1	1	...	2	...	1	1	..	1	...	...
111A. Pulmonary embolism and thrombosis	12	..	...	...	...	...	..	..	..	...	1	...	...	..	..	...	...	..	...	...	...	..	...	...	...
111B. Others under this title	64	..	1	...	...	2	1	2	1	1	1	1	2	..	1	1	...	2	...	1	1	..	1	...	...
112. Asthma	168	1	2	3	3	4	2	1	1	1	1	6	2	2	4	6	2	..	...	2	3	..	...	1	1
113. Pulmonary emphysema	5	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	1	...
114. Other diseases of the respiratory system (tuberculosis excepted)	48	..	...	...	1	...	2	..	..	2	1	2	...	..	..	...	...	..	...	...	...	1	1	1	...
114A. Chronic interstitial pneumonia including occupational diseases of the respiratory system	9	..	...	...	...	...	..	..	..	...	1	...	...	..	..	...	...	..	...	...	...	..	...	...	...
114B. Gangrene of the lung	2	..	...	...	1	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
114C. Others under this title	37	..	...	...	...	...	2	..	..	2	...	2	...	..	..	...	...	..	...	...	...	1	1	1	...

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
5	..	2	..	17	..	...	...	2	3	2	1	...	1	6	1	..	..	1	2	2	1	...	...	1	...	2	4	2	3	27	93A
1	..	1	..	2	..	3	...	...	...	1	1	...	1	...	2	..	..	...	1	3	...	2	1	..	...	1	...	2	3	9	93B
24	5	19	8	75	11	11	8	29	32	35	14	4	26	27	9	11	..	16	2	29	5	16	7	13	11	17	25	20	44	324	93C
5	2	17	4	29	3	7	9	11	7	19	7	3	13	23	5	3	4	15	8	14	18	7	3	7	8	29	14	29	40	115	93D
49	15	55	5	129	22	30	39	38	65	55	19	32	70	41	11	15	6	32	9	119	23	57	62	29	33	99	85	68	199	1041	94
2	..	3	..	3	..	1	1	2	2	1	1	...	...	...	..	..	..	...	..	3	...	2	15	1	1	1	...	7	8	38	94A
36	8	48	5	107	19	23	34	24	60	42	14	28	60	35	7	13	6	30	6	111	15	54	45	25	26	84	81	54	170	931	94B
11	7	4	..	19	3	6	4	12	3	12	4	4	10	6	4	2	..	2	3	5	8	1	2	3	6	14	4	7	21	72	94C
4	4	7	..	19	3	9	3	1	3	...	6	3	6	8	2	5	3	3	..	8	3	3	5	3	4	6	6	6	15	102	95
...	..	1	..	2	2	1	...	...	...	...	..	...	1	...	..	..	1	1	..	1	...	...	...	1	1	...	2	2	2	28	95A
4	4	6	..	17	1	8	3	1	3	...	6	3	5	8	2	5	2	2	..	7	3	3	5	2	3	6	4	4	13	74	95B
...	..	2	..	4	1	...	1	1	2	...	..	...	1	1	..	..	..	...	..	...	1	...	...	1	...	...	...	...	15	19	96
79	9	62	12	158	30	20	45	50	83	73	23	32	65	62	13	30	13	49	14	136	36	24	22	14	37	122	99	71	267	785	97
2	1	1	..	7	1	...	...	1	2	2	..	...	2	2	..	..	..	...	1	2	2	1	...	..	1	1	...	1	4	25	98
1	..	...	..	...	1	1	...	...	1	1	1	...	1	...	1	..	..	1	..	...	...	1	...	..	...	...	...	1	1	11	99
1	..	...	..	5	1	...	...	1	...	1	..	1	1	1	..	..	..	...	1	2	1	...	1	..	1	2	5	1	6	19	100
...	..	...	..	1	..	...	...	...	...	...	..	...	...	...	..	..	1	...	..	...	1	...	...	..	...	...	...	...	1	3	101
5	3	11	4	34	8	7	8	3	10	11	7	4	8	11	2	5	1	13	2	15	4	8	14	5	6	11	16	9	52	233	102
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	1	...	...	...	..	...	...	...	...	...	....	103
34	1	53	7	145	20	39	40	29	58	62	21	12	29	47	20	19	10	41	9	78	34	78	49	30	32	65	65	53	194	718	
...	..	...	1	...	..	...	1	...	...	1	..	...	...	...	..	1	..	1	1	...	...	1	...	..	...	...	1	...	...	22	104
1	..	...	..	...	..	1	...	...	...	...	..	...	1	2	1	..	..	...	..	1	...	2	...	..	...	1	...	...	3	3	105
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	1	..	..	...	..	...	...	...	...	..	...	...	...	...	...	....	105A
1	..	...	..	...	..	1	...	...	...	...	..	...	1	2	..	..	..	...	..	1	...	2	...	..	...	1	...	...	3	3	105B
...	1	2	..	3	..	1	...	2	5	3	1	...	...	1	..	1	..	...	2	2	3	1	...	1	2	...	4	4	4	18	106
...	..	1	..	2	..	1	...	1	2	...	..	...	...	...	..	..	..	...	1	1	1	...	...	1	...	...	3	3	1	8	106A
...	1	1	..	1	..	...	...	1	1	3	1	...	...	1	..	1	..	...	1	1	2	1	...	..	2	...	1	...	3	8	106B
...	..	...	..	...	..	...	...	...	2	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	1	...	2	106C
18	..	23	..	69	4	19	26	6	23	24	10	8	11	21	11	3	1	16	1	37	14	45	17	10	17	30	20	14	95	326	107
18	..	23	..	69	4	19	26	6	23	24	10	7	11	21	11	3	1	16	1	37	13	45	17	10	17	30	20	14	95	326	107A
...	..	...	..	...	..	...	...	...	...	...	..	1	...	...	..	..	..	...	..	...	1	...	...	..	...	...	...	...	...	....	107B
9	..	19	4	38	12	10	8	13	20	20	6	2	10	9	4	7	4	16	3	18	10	19	17	13	6	15	31	14	68	217	108
5	..	1	2	14	1	3	2	4	4	7	3	2	2	5	2	4	2	6	..	10	4	6	6	3	3	12	3	6	8	37	109
...	..	3	..	4	..	2	...	...	...	...	..	...	...	2	..	..	1	...	..	3	1	...	1	..	...	...	1	3	4	15	110
1	..	3	..	2	..	...	...	2	4	2	..	...	1	1	..	1	..	1	..	5	2	...	2	..	2	1	3	3	1	20	111
...	..	...	..	...	..	...	...	...	1	2	..	...	...	...	..	..	..	...	..	...	1	...	...	..	...	...	1	1	...	5	111A
1	..	3	..	2	..	...	...	2	3	...	..	...	1	1	..	1	..	1	..	5	1	...	2	..	1	1	2	2	1	15	111B
...	..	...	..	10	3	2	3	1	2	5	1	...	4	4	2	2	2	...	2	1	...	3	4	1	3	4	2	9	6	44	112
...	..	...	..	2	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	1	1	113
...	..	2	..	3	..	1	...	1	...	...	..	...	...	2	..	..	..	1	..	1	...	1	2	2	...	2	...	...	4	15	114
...	..	1	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	1	1	...	...	...	...	1	4	114A
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	1	....	114B
...	..	1	..	3	..	1	...	1	...	...	..	...	...	2	..	..	..	1	..	1	...	1	1	1	...	2	...	...	2	11	114C

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton	Lanark
CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM																									
Total	2355	2	29	49	20	179	50	14	4	13	24	93	52	12	6	35	7	2	8	49	31	15	52	43	16
115. Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations	158	..	1	2	1	6	..	1	..	...	4	14	4	1	1	3	...	..	...	4	3	1	8	2	...
115A. Diseases of the buccal cavity and annexa	58	..	...	...	...	2	..	1	..	...	2	4	...	1	1	2	...	..	...	4	2	1	3	...	...
115B. Diseases of the tonsils	43	..	1	1	...	3	..	..	..	...	1	5	2	..	..	...	...	..	...	...	1	..	1	1	...
115C. Others under this title	57	..	...	1	1	1	..	..	..	...	1	5	2	..	..	1	...	..	...	...	...	..	4	1	...
116. Diseases of the oesophagus	7	..	...	...	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
117. Ulcer of the stomach or duodenum	295	..	5	3	4	18	5	3	..	3	3	5	4	1	2	2	...	1	2	4	7	3	6	2	2
117A. Ulcer of the stomach	151	..	4	1	2	10	5	1	..	2	1	3	1	..	2	2	...	..	1	2	3	..	2	2	...
117B. Ulcer of the duodenum	144	..	1	2	2	8	..	2	..	1	2	2	3	1	..	...	...	1	1	2	4	3	4	...	2
118. Other diseases of the stomach	46	..	3	1	...	4	3	..	..	1	...	...	...	..	..	...	1	..	...	...	1	..	1	1	...
119. Diarrhoea and enteritis (under 2 years of age)	312	..	8	6	4	36	19	..	2	2	...	7	6	3	..	3	...	..	...	5	2	2	6	7	...
120. Diarrhoea and enteritis (2 years and over)	196	..	1	7	3	10	..	3	..	2	2	6	8	5	..	3	...	..	...	5	6	1	9	6	2
120A. Diarrhoea and enteritis	136	..	1	7	2	8	..	1	..	2	2	5	3	4	..	1	...	..	...	2	4	..	8	4	1
120B. Ulceration of the intestines	60	..	...	...	1	2	..	2	..	...	...	1	5	1	..	2	...	..	...	3	2	1	1	2	1
121. Appendicitis	330	..	3	2	4	25	10	2	..	...	3	12	3	..	..	6	2	1	...	11	3	4	6	2	3
122. Hernia, intestinal obstruction	386	1	5	13	1	29	6	1	..	3	4	16	18	1	1	8	2	..	2	6	3	3	13	8	2
122A. Hernia	171	1	2	7	...	8	1	..	..	2	3	6	8	1	1	4	...	..	1	3	1	2	8	2	...
122B. Intestinal obstruction	215	..	3	6	1	21	5	1	..	1	1	10	10	..	..	4	2	..	1	3	2	1	5	6	2
123. Other diseases of the intestines	47	1	...	3	...	3	1	..	1	...	1	1	2	..	..	...	...	..	3	...	1	..	...	...	1
124. Cirrhosis of the liver	154	..	1	4	...	13	1	..	..	1	...	15	2	..	1	...	2	..	1	4	...	..	1	4	1
124A. Specified as alcoholic	12	..	...	...	...	...	..	..	..	...	...	3	1	..	..	...	...	..	...	...	...	..	...	...	...
124B. Not specified as alcoholic	142	..	1	4	...	13	1	..	..	1	...	12	1	..	1	...	2	..	1	4	...	..	1	4	1
125. Other diseases of the liver	52	..	...	4	...	3	1	1	..	...	1	...	1	..	..	...	...	..	1	...	1	..	...	1	1
125A. Yellow atrophy of the liver	12	..	...	1	...	1	..	..	..	...	1	...	1	..	..	...	...	..	...	...	...	..	...	1	...
125B. Others under this title	40	..	...	3	...	2	1	1	..	...	...	...	...	..	..	...	...	..	1	...	1	..	...	...	1
126. Biliary calculi	165	..	1	2	2	20	..	1	..	1	3	7	4	..	1	4	...	..	1	3	2	..	1	6	1
127. Other diseases of the gall-bladder and biliary passages	163	..	1	2	...	10	3	1	1	...	3	9	...	1	..	5	...	..	1	3	2	..	1	3	2
128. Diseases of the pancreas	14	..	...	...	...	...	1	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	1	...
129. Peritonitis, cause not specified	30	..	...	...	1	1	..	1	..	...	...	1	...	..	..	1	...	..	...	1	1	..	...	...	1
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM																									
Total	2780	3	39	59	51	161	38	8	17	21	37	161	70	19	24	58	12	1	14	62	41	7	46	50	37
130. Acute nephritis (including unspecified, under 10 years of age)	63	..	1	2	1	5	2	..	..	...	...	1	1	1	..	2	...	..	...	...	...	..	2	1	2
131. Chronic nephritis	1399	3	22	32	34	72	19	4	13	9	20	92	36	7	17	27	3	1	7	41	21	5	16	24	20
132. Nephritis, unspecified (10 years and over)	438	..	8	9	1	31	4	..	2	4	2	39	9	8	5	9	5	..	1	6	11	2	11	7	4
133. Other diseases of the kidneys and ureters	149	..	1	1	1	13	1	1	1	2	1	9	2	1	1	6	...	..	1	1	1	..	1	1	3
134. Calculi of the urinary passages	51	..	...	...	1	4	1	1	..	2	1	2	...	..	..	...	...	..	1	1	...	..	1	...	1
135. Diseases of the bladder (tumours excepted)	91	..	...	...	...	5	..	1	1	2	1	2	1	..	..	...	...	..	...	2	1	..	2	...	1
136. Diseases of the urethra, urinary abscess, etc	20	..	...	1	...	1	..	..	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	2	...
136A. Stricture of the urethra	15	..	...	1	...	...	..	..	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	1	...

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
21	2	35	12	93	12	46	23	16	32	39	10	16	32	21	16	10	11	47	13	80	29	53	51	35	16	68	56	43	130	482	
1	..	2	..	6	..	4	1	...	3	4	..	1	1	2	..	1	1	5	..	6	...	3	2	2	1	1	8	6	12	29	115
1	..	1	..	1	..	2	1	...	2	1	..	...	1	...	..	1	1	2	..	...	...	1	...	2	...	1	1	3	4	9	115A
...	..	1	..	2	..	2	...	...	...	2	..	...	...	...	..	..	..	1	..	3	...	...	...	..	1	..	2	2	2	9	115B
...	..	...	..	3	..	...	...	...	1	1	..	1	...	2	..	..	..	2	..	3	...	2	2	..	...	...	5	1	6	11	115C
...	..	1	..	1	..	...	...	...	...	...	..	...	...	...	1	..	..	...	..	...	...	...	...	..	...	...	...	...	1	2	1116
...	..	5	1	17	3	1	1	2	6	6	1	3	1	1	..	..	1	2	1	21	4	4	10	4	2	7	6	2	15	83	117
...	..	3	1	10	..	1	...	1	2	5	1	1	1	...	..	..	1	2	1	13	2	4	9	2	2	3	4	1	5	32	117A
...	..	2	..	7	3	...	1	1	4	1	..	2	...	1	..	..	..	...	..	8	2	...	1	2	...	4	2	1	10	51	117B
...	..	...	1	1	..	4	1	...	...	...	..	...	1	2	2	..	1	1	..	...	2	1	...	..	1	1	1	1	1	8	118
3	..	4	8	6	2	22	7	3	1	6	5	1	1	...	7	5	6	8	2	6	6	25	9	7	2	8	4	...	7	23	119
...	1	1	1	9	1	3	4	2	1	2	2	1	3	3	1	2	..	7	1	11	1	1	...	4	4	8	1	5	8	29	120
...	1	1	1	3	1	2	4	2	1	1	2	1	1	3	1	2	..	6	1	11	...	1	...	3	4	7	1	3	5	12	120A
...	..	...	..	6	..	1	...	...	...	1	..	...	2	...	..	..	..	1	..	...	1	...	...	1	...	1	...	2	3	17	120B
7	..	3	..	15	3	3	...	...	2	6	..	...	3	3	3	1	1	12	..	8	3	10	8	8	1	12	7	11	15	83	121
5	1	8	..	16	2	5	1	4	12	10	1	3	3	4	..	1	..	6	1	17	7	3	7	5	2	10	8	4	20	74	122
4	..	3	..	9	..	2	...	4	6	4	1	2	1	2	..	..	..	4	..	8	3	1	4	2	1	3	1	1	11	33	122A
1	1	5	..	7	2	3	1	...	6	6	..	1	2	2	..	1	..	2	1	9	4	2	3	3	1	7	7	3	9	41	122B
...	..	2	..	...	..	...	...	...	...	...	..	...	...	2	..	..	..	1	..	...	...	...	3	..	...	1	...	1	2	17	123
2	..	2	..	3	..	1	2	1	...	1	..	2	5	2	1	..	..	1	1	1	3	2	2	2	2	7	5	4	16	35	124
...	..	...	..	...	..	...	...	...	...	...	..	...	...	1	..	..	..	...	..	...	...	...	...	..	...	...	1	1	...	5	124A
2	..	2	..	3	..	1	2	1	...	1	..	2	5	1	1	..	..	1	1	1	3	2	2	2	2	7	4	3	16	30	124B
...	..	1	..	...	1	...	...	2	...	2	..	2	1	...	1	..	..	...	..	...	1	1	1	..	...	1	1	1	9	12	125
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	2	5	125A
...	..	1	..	...	1	...	...	2	...	2	..	2	1	...	1	..	..	...	..	...	1	1	1	..	...	1	1	1	7	7	125B
1	..	3	1	5	..	1	2	1	5	2	1	1	9	2	..	..	1	1	2	4	1	2	4	1	1	2	4	1	9	38	126
...	..	3	..	11	..	1	4	...	1	...	..	2	3	...	..	..	..	3	3	3	...	1	4	2	...	9	10	7	11	37	127
1	..	...	..	3	..	...	...	...	...	...	..	...	1	...	..	..	..	...	..	1	...	...	...	..	...	1	1	...	...	4	128
1	..	...	..	...	..	1	...	1	1	...	..	...	...	...	..	..	..	...	2	2	1	...	1	..	...	...	...	...	4	8	129
20	14	55	8	142	9	27	23	31	34	56	20	17	52	56	19	22	9	45	14	108	39	27	29	20	23	86	69	52	122	496	
2	..	2	..	...	1	1	...	...	...	2	..	1	3	1	..	1	..	3	..	3	...	2	1	..	...	...	...	3	3	13	130
12	7	28	3	81	3	16	11	24	13	28	14	4	32	23	10	16	5	19	12	53	28	13	13	11	7	44	39	24	56	205	131
1	4	10	2	18	2	6	3	2	7	9	2	4	6	18	5	1	3	8	1	13	1	7	4	1	4	16	17	10	11	64	132
1	..	1	2	10	..	1	...	...	3	...	1	3	2	3	2	..	..	2	..	6	5	...	...	1	3	4	2	2	4	43	133
...	..	2	..	3	..	...	1	...	...	...	..	...	2	2	..	..	..	1	..	...	1	...	...	..	1	3	...	...	4	14	134
...	1	1	..	4	1	...	2	1	3	2	..	1	1	...	..	..	..	3	..	5	2	...	1	1	2	2	1	2	10	26	135
...	..	...	..	2	..	...	...	...	...	1	..	...	...	1	..	..	..	...	..	1	...	...	1	..	...	...	...	...	1	8	136
...	..	...	..	...	..	...	...	...	...	1	..	...	...	1	..	..	..	...	..	...	...	...	1	..	...	...	...	...	1	8	136A

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton	Lanark
136B. Others under this title.	5	..	...	...	...	1	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	1	...
137. Diseases of the prostate..	493	..	5	12	13	27	4	1	..	2	10	14	21	2	1	12	4	..	3	9	8	..	13	14	6
138. Diseases of the male genital organs (not specified as venereal)	7	..	...	...	...	...	3	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
139. Diseases of the female genital organs (not specified as venereal)...	69	..	2	2	...	3	4	..	..	...	2	1	...	..	..	1	...	..	1	2	...	..	...	1	...
139A. Of the ovary, Fallopian tube and parametrium.	25	..	2	...	...	2	1	..	..	...	...	1	...	..	..	...	...	..	1	1	...	..	...	1	...
139B. Of the uterus..........	42	..	...	2	...	1	3	..	..	...	2	...	...	..	..	1	...	..	...	1	...	..	...	...	...
139C. Of the breast.........	2	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE																									
Total...............	251	.	4	4	4	21	13	..	2	1	3	11	3	1	..	3	1	..	2	6	3	5	1	2	2
140. Abortion with septic conditions...............	26	..	...	...	...	...	1	2	..	...	...	...	1	..	..	...	...	..	...	1	1	1	...	...	...
140A. Abortion..............	12	..	...	...	...	1	1	..	..	...	...	...	...	..	..	...	...	..	...	...	...	1	...	...	...
140B. Self-induced abortion..	14	..	...	...	...	...	..	1	..	...	...	1	...	..	..	...	...	..	...	1	1	..	...	...	...
141. Abortion without mention of septic conditions (haemorrhage included)	9	.	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	1	...	..	...	1	...
141A. Abortion..	8	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	1	...	..	...	1	...
141B. Self-induced abortion...	1	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
142. Ectopic gestation	11	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
142A. With septic conditions..	3	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
142B. Without mention of septic conditions.........	8	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
143. Other accidents of pregnancy (haemorrhage excluded)............	3	..	...	...	...	...	..	..	..	...	...	1	1	..	..	...	...	..	...	...	...	..	...	...	...
144. Puerperal haemorrhage..	22	..	...	...	...	2	2	..	..	...	...	3	...	..	..	...	1	..	1	...	...	..	...	...	...
144A. Placenta praevia.......	10	..	...	...	...	2	1	..	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	...	...
144B. Other haemorrhages....	12	..	...	...	...	...	1	..	..	...	...	2	...	..	..	...	1	..	1	...	...	..	...	...	...
145. Puerperal septicaemia (not specified as due to abortion)............	50	..	1	...	1	4	3	..	..	...	1	3	2	..	..	1	...	..	...	2	2	1	...	...	...
145A. Puerperal septicaemia and pyaemia	50	..	1	...	1	4	3	..	..	...	1	3	2	..	..	1	...	..	...	2	2	1	...	...	...
146. Puerperal albuminuria and eclampsia.........	45	..	1	...	1	10	4	..	..	1	...	2	...	..	..	...	...	..	...	1	...	..	1	1	...
147. Other toxaemias of pregnancy...............	9	..	...	1	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
148. Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)............	41	..	...	2	...	3	2	..	1	...	...	...	...	1	..	1	...	..	...	1	...	2	...	...	1
148A. Phlegmasia alba dolens and thrombosis........	13	..	...	1	...	1	1	..	..	...	...	...	...	..	..	1	...	..	...	1	...	..	...	...	1
148B. Embolism	18	..	...	1	...	1	..	..	..	...	...	...	...	1	..	...	...	..	...	...	...	2	...	...	...
148C. Sudden death........	10	..	...	...	...	1	1	..	1	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
149. Other accidents of childbirth................	35	..	2	1	2	1	..	..	1	...	1	2	...	..	..	1	...	..	1	...	...	1	...	...	1
149A. Caesarean operation...	6	..	...	...	1	...	..	..	..	...	1	1	...	..	..	...	...	..	...	...	...	..	...	...	...
149B. Other surgical operations and instrumental delivery	6	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
149C. Dystocia	14	..	2	1	1	...	..	..	1	...	...	...	...	..	..	...	...	..	1	...	...	1	...	...	1
149E. Others under this title	9	.	...	...	...	1	..	..	..	...	...	1	...	..	..	1	...	..	...	...	...	..	...	...	...
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE																									
Total...............	76	..	...	2	...	5	4	2	..	...	1	...	1	..	..	3	1	..	2	1	2	1	3	1	1
151. Carbuncle...........	27	..	...	1	...	2	2	1	..	...	...	...	...	..	..	...	...	..	...	...	2	..	2	...	...
152. Cellulitis, acute abscess.	22	..	...	...	...	...	1	1	..	...	1	...	1	..	..	2	...	..	...	...	...	..	...	1	...
153. Other diseases of the skin and annexa and of the cellular tissue.........	27	..	...	1	...	3	1	..	..	...	...	...	...	..	..	1	1	..	2	1	...	1	1	...	1

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
...	..	...	..	2	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	1	...	...	...	..	...	...	...	...	...	...	136B
4	2	10	1	24	2	3	5	1	8	13	2	2	6	6	1	4	..	9	1	23	2	3	7	3	6	16	4	10	27	107	137
...	..	...	..	...	..	...	...	...	...	...	..	1	...	...	..	..	..	...	..	...	...	...	...	..	...	...	1	...	2	....	138
...	..	1	..	...	..	...	1	3	...	1	1	1	...	2	1	..	1	...	..	4	...	2	2	3	...	1	5	1	4	16	139
...	..	1	..	...	..	...	1	1	...	...	..	...	...	...	..	..	1	...	..	2	...	1	1	2	...	1	1	...	1	3	139A
...	..	...	..	...	..	...	...	1	...	1	1	1	...	2	1	..	..	...	..	2	...	1	1	1	...	...	4	1	3	12	139B
...	..	...	..	...	..	...	...	1	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	1	139C
6	..	5	..	7	1	4	1	4	3	4	1	...	3	5	4	4	..	4	1	7	3	9	10	6	1	1	3	3	13	46	
1	..	...	..	1	..	...	...	...	1	...	..	...	...	...	..	..	..	1	..	1	...	2	1	1	...	...	...	...	1	9	140
1	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	1	..	...	...	2	1	1	...	...	...	...	1	2	140A
...	..	...	..	1	..	...	...	...	1	...	..	...	...	...	..	..	..	...	..	1	...	...	...	..	...	...	...	...	...	7	140B
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	2	..	1	...	1	...	1	...	...	...	...	...	2	141
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	2	..	1	...	1	...	1	...	...	...	...	...	1	141A
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	1	141B
...	..	...	..	1	..	...	...	...	...	...	..	...	...	...	1	..	..	...	..	2	1	1	...	..	...	...	...	...	...	5	142
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	1	...	...	...	..	...	...	...	...	...	2	142A
...	..	...	..	1	..	...	...	...	...	...	..	...	...	...	1	..	..	...	..	1	1	1	...	..	...	...	...	...	...	3	142B
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	1	..	..	...	..	...	...	...	...	..	...	...	...	...	...	...	143
...	..	...	..	...	1	1	...	1	...	...	..	...	1	1	..	1	..	...	..	...	...	2	...	1	1	...	...	...	1	2	144
...	..	...	..	...	..	...	...	1	...	...	..	...	...	1	..	1	..	...	..	...	...	1	...	1	1	...	...	...	...	...	144A
...	..	...	..	...	1	1	...	...	...	...	..	...	1	...	..	..	..	...	..	...	...	1	...	..	...	...	...	...	1	2	144B
...	..	2	..	...	..	1	1	1	1	...	..	...	...	2	1	1	..	1	1	...	1	...	2	..	...	...	2	...	5	7	145
...	..	2	..	...	..	1	1	1	1	...	..	...	...	2	1	1	..	1	1	...	1	...	2	..	...	...	2	...	5	7	145A
1	..	2	..	...	..	1	...	1	...	2	..	...	...	2	..	...	..	...	..	2	...	2	1	1	...	...	...	1	1	6	146
1	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	3	..	...	...	...	...	2	2	147
3	..	...	..	2	..	1	...	...	1	1	1	...	2	...	..	2	..	...	..	1	...	1	1	1	...	1	...	1	3	5	148
...	..	...	..	...	..	...	...	...	...	1	1	...	1	...	..	1	..	...	..	...	...	...	...	..	...	1	...	...	...	2	148A
1	..	...	..	2	..	...	...	...	1	...	..	...	1	...	..	1	..	...	..	1	...	...	...	1	...	...	...	1	2	2	148B
2	..	...	..	...	..	1	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	1	1	..	...	...	...	...	1	1	148C
...	..	1	..	3	..	...	...	1	...	1	..	...	...	...	1	..	..	...	..	...	1	...	2	1	...	...	1	1	...	8	149
...	..	...	..	...	..	...	...	...	...	1	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	2	149A
...	..	...	..	3	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	3	149B
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	1	..	..	...	..	...	1	...	1	..	...	...	1	...	...	2	149C
...	..	1	..	...	..	...	...	1	...	...	..	...	...	...	..	..	..	...	..	...	...	...	1	1	...	...	...	1	...	1	149E
1	..	...	1	1	..	...	4	1	...	1	..	...	1	...	1	1	..	1	..	4	...	2	...	..	2	2	1	4	18		
1	..	...	..	...	..	...	1	1	...	1	..	...	1	...	..	..	..	1	..	1	...	...	1	..	...	1	...	...	3	5	151
...	..	...	..	...	..	...	2	...	...	...	..	...	...	...	..	1	..	...	..	1	...	...	1	..	...	...	2	1	...	7	152
...	..	...	1	1	..	...	1	...	...	...	..	...	...	...	1	..	..	...	..	2	...	...	...	..	...	1	...	...	1	6	153

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora incl. Patricia	Kent	Lambton	Lanark
CLASS XIII.–DISEASES OF THE BONES AND ORGANS OF LOCOMOTION																									
Total	108	..	2	3	2	6	1	..	..	3	3	3	4	..	..	2	1	..	...	...	...	..	2	1	1
154. Osteomyelitis	52	..	...	1	2	4	1	..	..	1	1	1	3	..	..	1	...	..	...	...	...	..	...	1	...
155. Other diseases of the bones (tuberculosis excepted)	23	..	...	1	...	...	...	..	..	1	...	1	1	..	..	1	1	..	...	...	...	..	2	...	1
156. Diseases of the joints and other organs of locomotion	33	..	2	1	...	2	..	..	..	1	2	1	...	..	..	...	...	..	...	...	...	..	...	...	...
156A. Of the joints (tuberculosis and rheumatism excepted	15	..	...	...	...	...	..	..	..	1	1	1	...	..	..	...	...	..	...	...	...	..	...	...	...
156B. Of other organs of locomotion	18	..	2	1	...	2	..	..	..	...	1	...	...	..	..	...	...	..	...	...	...	..	...	...	...
CLASS XIV.—CONGENITAL MALFORMATIONS																									
Total	499	1	2	9	4	25	13	2	3	...	6	21	8	4	3	5	2	2	1	21	9	3	9	4	5
157. Congenital malformations (stillbirths excluded)	499	1	2	9	4	25	13	2	3	...	6	21	8	4	3	5	2	2	1	21	9	3	9	4	5
157A. Congenital hydrocephalus	54	..	...	1	...	3	..	..	1	...	...	4	4	..	1	...		2	...	...	1		1	2	...
157B. Spina bifida and meningocele	123	..	1	1	2	8	4	2	1	...	2	5	2	1	..	1	...	1	...	1	3	..	1	1	1
157C. Congenital malformations of the heart	191	..	1	6	1	6	5	..	1	...	1	8	2	2	2	1	...	1	1	9	5	3	5	2	2
157D. Monstrosities	9	..	...	...	...	...	..	..	..	...	1	...	...	..	..	...	...	..	...	3	...	..	...	...	...
157E. Others under this title	122	1	...	1	1	8	4	..	..	...	2	4	...	1	..	3	...	..	...	7	...	..	1	1	2
CLASS XV.—DISEASES OF EARLY INFANCY																									
Total	1625	1	35	18	18	90	60	6	10	12	17	62	26	4	9	26	3	5	2	23	16	24	43	22	15
158. Congenital debility	111	..	2	1	5	4	6	..	..	...	1	...	5	1	1	3	2	2	1	...	1	2	4	2	2
159. Premature birth	1010	..	23	11	8	62	35	4	8	9	9	41	11	1	5	16	...	1	1	17	10	15	23	15	7
160. Injury at birth	289	..	5	1	2	17	10	1	1	...	4	18	6	1	1	6	1	1	...	2	3	5	9	3	4
160A. With mention of caesarean operation	4	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
160B. Without mention of caesarean operation	285	..	5	1	2	17	10	1	1	...	4	18	6	1	1	6	1	1	...	2	3	5	9	3	4
161. Other diseases peculiar to early infancy (under 3 months)	215	1	5	5	3	7	9	1	1	3	3	3	4	1	2	1	...	1	...	4	2	2	7	2	2
161A. Atelectasis	73	..	...	1	...	1	2	..	..	...	1	3	...	..	1	...	...	..	...	1	...	..	...	...	...
161B. Icterus of the new-born	32	..	1	...	...	2	..	..	1	1	...	...	1	..	1	...	...	..	...	2	...	1	1	1	...
161C. Sclerema and oedema	2	1	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
161D. Athrepsia	8	..	1	1	...	...	1	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	1	...
161E. Others, including lack of care	95	..	2	3	3	4	3	1	..	2	2	...	3	1	..	1	...	1	...	1	2	1	6	...	2
161F. No cause given, no doctor in attendance	5	..	1	...	...	...	3	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
CLASS XVI.—SENILITY																									
Total	475	..	4	7	5	27	..	4	5	2	14	3	17	2	3	13	3	1	2	7	6	2	8	7	12
162. Senility	475	..	4	7	5	27	..	4	5	2	14	3	17	2	3	13	3	1	2	7	6	2	8	7	12
162A. With senile dementia (70 years and over)	206	..	3	2	2	9	..	..	1	...	6	...	14	..	..	5	...	1	...	3	3	..	4	3	4
162B. Without senile dementia (70 years and over)	269	..	1	5	3	18	..	4	4	2	8	3	3	2	3	8	3	..	2	4	3	2	4	4	8

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
...	..	5	3	5	..	...	...	...	...	...	..	...	3	1	1	1	..	1	..	3	2	1	2	1	1	1	3	1	9	30	
...	..	3	1	3	..	...	...	...	...	...	..	...	2	...	..	1	..	....	..	2	1	1	1	..	...	1	1	...	3	16	154
...	..	2	..	...	..	...	...	...	...	...	..	...	...	1	1	..	..	1	..	1	1	...	...	..	...	...	...	1	1	5	155
...	..	...	2	2	..	...	...	...	...	...	..	...	1	...	..	..	..	...	..	...	...	...	1	1	1	...	2	...	5	9	156
...	..	...	1	2	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	1	...	2	...	2	4	156A
...	..	...	1	...	..	...	...	...	...	...	..	...	1	...	..	..	..	...	..	...	...	...	1	1	...	...	...	...	3	5	156B
9	..	9	..	13	6	5	5	6	6	6	1	3	7	5	5	1	2	9	4	13	6	12	5	7	1	13	8	11	36	123	
9	..	9	..	13	6	5	5	6	6	6	1	3	7	5	5	1	2	9	4	13	6	12	5	7	1	13	8	11	36	123	157
1	..	...	..	1	2	1	1	...	...	...	..	...	2	1	..	..	..	1	..	...	1	1	1	..	...	1	1	1	5	13	157A
2	..	2	..	1	2	1	2	3	2	1	..	...	...	1	2	1	..	3	..	3	...	4	...	1	1	6	2	2	9	34	157B
6	..	3	..	9	1	...	1	2	4	5	..	1	3	2	3	..	2	5	4	2	3	3	1	2	...	5	4	3	8	45	157C
...	..	...	..	...	..	...	...	1	...	...	..	...	...	1	..	..	..	...	..	1	...	...	...	..	...	...	1	...	1	....	157D
...	..	4	..	2	1	3	1	...	...	...	1	2	2	...	..	..	..	...	..	7	2	4	3	4	...	1	...	5	13	31	157E
17	2	30	8	47	16	40	5	11	23	21	13	10	14	27	42	6	19	34	19	46	25	75	39	38	12	40	27	24	58	290	
...	..	2	..	2	1	7	...	...	...	4	3	...	1	3	4	..	3	4	2	1	3	6	3	3	1	1	6	...	1	5	158
14	..	19	5	24	12	28	3	7	16	10	9	6	6	18	17	2	9	19	9	29	16	44	30	28	7	22	11	16	38	204	159
2	..	6	1	12	2	2	2	3	6	5	..	4	4	...	16	2	5	7	5	7	4	10	3	4	3	8	5	6	13	41	160
...	..	...	..	1	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	...	1	...	1	...	...	...	1	160A
2	..	6	1	11	2	2	2	3	6	5	..	4	4	...	16	2	5	7	5	7	4	10	3	3	3	7	5	6	13	40	160B
1	2	3	2	9	1	3	...	1	1	2	1	...	3	6	5	2	2	4	3	9	2	15	3	3	1	9	5	2	6	40	161
...	2	1	1	5	..	1	...	1	...	1	..	...	2	4	..	..	..	1	3	1	...	3	3	1	...	5	5	2	3	18	161A
1	..	...	..	1	..	...	...	...	...	...	1	...	...	...	1	..	1	...	..	2	1	3	...	1	...	1	...	...	2	5	161B
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	1	...	..	...	...	...	...	...	....	161C
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	1	..	..	1	..	...	...	2	...	..	...	...	...	...	...	....	161D
...	..	2	1	3	1	2	...	...	1	1	..	...	1	2	3	2	1	2	..	6	1	5	...	1	1	3	...	...	1	17	161E
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	1	...	..	...	...	...	...	...	....	161F
19	7	8	2	32	2	...	12	6	22	12	3	2	3	16	3	6	4	6	3	16	2	2	4	..	3	15	8	12	31	60	
19	7	8	2	32	2	...	12	6	22	12	3	2	3	16	3	6	4	6	3	16	2	2	4	..	3	15	8	12	31	60	162
12	4	2	1	21	..	...	4	1	18	1	..	1	1	...	..	5	..	1	2	6	1	1	1	..	2	7	4	5	20	25	162A
7	3	6	1	11	2	...	8	5	4	11	3	1	2	16	3	1	4	5	1	10	1	1	3	..	1	8	4	7	11	35	162B

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patricia	Kent	Lambton	Lanark
CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS																									
Total	2754	3	44	47	27	101	61	19	8	24	32	127	60	9	12	43	16	6	21	47	31	32	70	41	24
163–171. Suicides	360	.	7	6	4	10	10	1	..	4	4	16	11	2	1	1	1	..	2	4	5	7	3	...	5
163. Suicide by solid or liquid poisons or by absorption of corrosive substances	71	..	...	1	...	6	3	..	..	1	1	2	1	..	..	...	...	..	...	...	1	..	...	...	1
164. Suicide by poisonous gas	41	..	1	1	2	1	..	..	..	...	...	3	1	1	..	...	1	..	...	...	...	..	...	...	...
165. Suicide by hanging or strangulation	81	..	4	2	1	...	2	..	..	...	...	4	2	1	..	...	...	..	1	3	2	..	1	...	1
166. Suicide by drowning	46	..	1	1	1	1	..	..	..	...	1	4	1	..	..	1	...	..	...	...	...	..	...	...	1
167. Suicide by firearms	64	..	...	1	...	1	2	1	..	1	1	1	3	..	1	...	...	..	1	1	1	7	1	...	2
168. Suicide by cutting or piercing instruments	21	..	1	...	...	1	1	..	..	2	1	1	1	..	..	...	...	..	...	...	...	..	...	...	...
169. Suicide by jumping from high places	26	..	...	...	...	...	..	..	..	...	...	1	1	..	..	...	...	..	...	...	...	..	...	...	...
170. Suicide by crushing	5	..	...	...	...	...	1	..	..	...	...	...	1	..	..	...	...	..	...	...	...	..	...	...	...
171. Suicide by other means	5	..	...	...	...	...	1	..	..	...	...	...	...	..	..	...	...	..	...	...	1	..	1	...	...
173–175. Homicides	44	..	1	1	...	3	2	..	..	...	...	3	...	..	1	1	...	..	...	...	1	..	...	...	...
173. Homicide by firearms	11	..	1	...	...	...	2	..	..	...	...	...	...	..	..	1	...	..	...	...	...	..	...	...	...
174. Homicide by cutting or piercing instruments	2	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
175. Homicide by other means	31	.	...	1	...	3	..	..	..	...	...	3	...	..	1	...	...	..	...	...	1	..	...	...	...
176–198. Other violent deaths	2350	3	36	40	23	88	49	18	8	20	28	108	49	7	10	41	15	6	19	43	25	25	67	41	19
176. Attack by venomous animals	1	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
177. Food poisoning	4	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
178. Accidental absorption of toxic gases	23	..	...	...	...	...	4	..	..	...	...	1	...	..	..	1	...	..	...	...	...	..	...	...	...
179. Other acute accidental poisonings (except by gas)	29	..	1	1	1	1	..	1	..	...	...	...	1	..	..	1	...	..	...	...	...	..	...	...	1
180. Conflagration	61	..	1	1	...	4	1	1	..	...	...	6	1	1	1	...	...	..	...	1	1	..	1	...	1
181. Accidental burns (conflagration excepted)	107	..	4	4	1	5	3	..	..	...	1	7	2	1	1	1	...	1	...	3	1	1	5	...	...
182. Accidental mechanical suffocation	62	..	...	...	1	...	4	1	..	...	...	...	.	2	..	1	...	1	1	...	..	1	...	1	2
183. Accidental drowning	287	1	12	5	...	14	9	1	1	3	5	12	6	..	1	1	4	2	1	4	2	7	17	3	1
184. Accidental injury by firearms	38	..	...	1	1	...	..	1	..	...	...	...	1	..	..	2	...	..	...	2	1	2	...	...	4
185. Accidental injury by cutting or piercing instruments	16	..	...	1	1	2	1	..	..	...	...	...	1	..	..	...	...	..	...	...	1	..	1	...	...
186. Accidental injury by fall, crushing or landslide	1523	..	16	24	14	56	20	10	5	15	19	68	28	4	4	30	10	3	16	26	16	15	37	35	12
188. Injuries by animals	32	..	...	...	1	1	1	1	..	1	2	1	1	..	1	1	...	..	1	...	...	..	...	...	...
190. Excessive cold	12	..	...	...	1	...	..	..	..	...	...	...	1	..	..	1	...	..	...	...	...	..	1	...	...
191. Excessive heat	34	..	...	2	...	1	..	..	1	1	...	4	2	..	..	...	...	..	...	...	...	..	1	...	...
192. Lightning	5	..	...	...	...	...	..	..	..	...	...	...	1	..	1	...	...	..	...	...	...	..	...	...	...
193. Accidents due to electric currents	21	..	...	...	...	2	1	..	1	...	...	1	1	..	..	...	...	..	...	...	1	..	...	...	...
194. Other accidents	69	2	2	1	1	1	2	2	..	...	1	2	1	..	1	2	...	..	1	5	2	..	3	1	...
194A. Foreign body	6	..	...	...	...	...	..	1	..	...	1	...	...	..	..	...	...	..	...	2	...	..	...	...	...
194B. Others under this title	63	2	2	1	1	1	2	1	..	...	...	2	1	..	1	2	...	..	1	3	2	..	3	1	...
195. Violent deaths of which the nature (accident, suicide, homicide) is unknown	23	..	...	...	1	1	3	..	..	...	...	4	2	..	..	...	...	..	...	1	...	..	...	...	...
198. Capital punishment	3	..	...	...	...	...	..	..	..	...	...	...	...	..	..	...	...	..	...	...	...	..	...	...	...
CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH																									
Total	62	..	4	1	1	2	10	..	..	...	1	1	...	1	1	...	...	..	...	2	1	..	4	...	2
199. Sudden death	31	..	...	1	1	2	..	..	..	...	1	...	...	1	..	...	...	..	...	1	1	..	3	...	2
200. Cause of death not specified or ill-defined	31	..	4	...	...	...	10	..	..	...	...	1	...	..	1	...	...	..	...	1	...	..	1	...	...

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
49	6	52	7	92	20	43	49	26	44	40	24	23	40	38	9	17	37	23	4	86	34	91	81	58	22	58	65	45	134	532	
9	2	9	..	8	1	2	4	2	7	5	2	7	3	5	2	2	2	3	3	7	4	4	12	4	1	11	11	5	14	105	163–171
2	..	3	..	3	..	...	...	...	1	1	1	1	1	1	..	..	..	1	..	...	1	1	2	2	...	2	...	2	4	25	163
1	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	1	...	...	...	..	...	2	...	...	1	25	164
1	2	1	..	4	1	...	3	...	1	3	..	3	1	1	..	2	..	...	1	4	1	...	6	1	...	2	2	...	4	13	165
1	..	3	..	1	..	...	...	...	2	1	..	3	...	1	1	..	..	1	2	...	...	...	2	1	...	1	6	1	1	6	166
1	..	2	..	...	..	1	1	2	2	...	1	...	1	1	1	..	1	1	..	1	2	1	2	..	1	1	3	...	1	12	167
2	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	1	...	..	1	...	1	...	..	...	2	...	1	...	5	168
1	..	...	..	...	..	...	...	...	1	...	..	...	...	...	..	..	..	...	..	...	...	...	...	..	...	...	...	...	3	19	169
...	..	...	..	...	..	1	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	1	...	..	...	1	...	...	...	....	170
...	..	...	..	...	..	...	...	...	...	...	..	...	...	1	..	..	..	...	..	...	...	...	...	..	...	...	...	1	...	....	171
5	..	1	..	2	..	...	1	...	...	...	..	1	1	...	..	..	..	...	..	...	1	3	2	2	1	...	1	1	2	7	173–175
...	..	1	..	...	..	...	1	...	...	...	..	1	...	...	..	..	..	...	..	...	...	1	...	..	...	...	...	...	2	1	173
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	1	1	..	...	...	...	...	...	....	174
5	..	...	..	2	..	...	...	...	...	...	..	...	1	...	..	..	..	...	..	...	1	1	1	2	1	...	1	1	...	6	175
35	4	42	7	82	19	41	44	24	37	35	22	15	36	33	7	15	35	20	1	79	29	84	67	52	20	47	53	39	118	420	186–198
...	..	...	..	...	..	...	...	...	...	...	..	...	...	1	..	..	..	...	..	...	...	...	...	..	...	...	...	...	...	....	176
...	1	...	..	...	..	...	...	...	...	...	..	...	...	...	1	..	..	...	..	...	...	1	...	..	...	...	...	...	...	1	177
...	..	1	..	2	..	...	...	...	1	...	..	...	...	...	..	..	..	...	..	1	...	...	...	..	...	...	...	1	1	10	178
...	..	...	1	1	2	1	2	...	1	...	..	...	...	1	..	..	..	1	..	2	1	...	...	1	...	...	...	...	1	6	179
1	1	...	1	...	..	1	...	1	...	...	1	...	...	...	..	..	18	1	..	1	...	1	4	2	...	1	1	...	...	5	180
1	..	1	..	6	1	...	2	3	...	6	..	...	...	3	..	..	2	...	..	3	3	4	1	3	...	1	2	1	3	20	181
...	..	...	..	...	..	2	1	1	1	3	1	1	1	...	..	..	2	1	..	2	1	3	1	2	1	...	1	2	5	15	182
3	..	7	4	6	6	13	3	5	5	2	5	...	1	5	..	1	2	1	..	9	4	21	12	8	3	2	13	2	7	25	183
...	..	1	..	...	..	1	...	...	...	...	2	...	1	...	..	..	1	1	..	6	2	2	...	..	...	1	1	...	1	3	184
...	..	...	..	...	..	3	...	...	...	...	..	...	...	...	..	..	..	...	..	...	1	...	2	..	1	...	...	...	1	....	185
26	2	31	..	63	8	16	34	11	27	20	11	13	30	23	5	13	7	15	..	42	15	45	42	33	12	36	30	31	90	309	186
1	..	...	..	2	..	...	2	...	...	3	..	1	1	...	1	..	2	...	..	3	...	1	...	..	...	1	...	2	...	....	188
...	..	1	..	...	..	2	...	1	...	...	..	...	...	...	..	..	1	...	..	2	...	...	...	..	...	...	...	...	...	1	190
...	..	...	1	1	..	...	...	...	...	...	..	...	...	...	..	1	..	...	..	1	1	...	...	1	...	...	...	...	3	13	191
...	..	...	..	...	1	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	1	..	1	...	...	...	...	....	192
1	..	...	..	1	..	...	...	...	...	...	1	...	1	...	..	..	..	...	..	3	...	...	...	..	1	2	...	...	1	3	193
2	..	...	..	...	1	2	...	2	1	1	1	...	1	...	..	..	..	...	1	4	...	5	2	1	1	3	...	...	4	7	194
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	1	...	...	...	1	..	...	...	...	...	...	....	194A
2	..	...	..	...	1	2	...	2	1	1	1	...	1	...	..	..	..	...	..	4	...	5	1	1	1	3	...	...	4	7	194B
...	..	...	..	...	..	...	...	...	1	...	..	...	...	...	..	..	..	...	..	...	1	...	2	..	...	...	5	...	1	1	195
...	..	...	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	1	...	1	...	...	...	...	...	1	198
...	..	1	..	...	..	...	...	...	1	2	1	1	...	...	..	1	1	...	..	2	3	4	2	..	...	1	2	1	1	7	
...	..	1	..	...	..	...	...	...	1	1	1	1	...	...	..	1	..	...	..	1	3	1	...	..	...	1	2	...	...	4	199
...	..	...	..	...	..	...	...	...	...	1	..	...	...	...	..	..	1	...	..	1	...	3	2	..	...	...	...	1	1	3	200

TABLE 42—CAUSES OF DEATH BY COUNTIES (INCLUDING CITIES,

SPECIAL CLASSES OF

(Included also under the numbers

Counties of Ontario (including cities, towns

IN THE PROVINCE OF

CAUSES OF DEATH	Total	Addington	Algoma	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora, incl. Patrica	Kent	Lambton	Lanark
A. Accidents in mines and quarries	54	..	...	...	...	...	14	..	..	...	...	...	...	..	..	...	...	..	...	...	...	2	...	...	1
B. Accidents caused by machines	46	..	2	2	1	2	..	..	..	...	...	...	1	..	..	...	...	..	1	...	3	1	2	...	...
C. Railway accidents	67	..	4	...	...	2	2	..	1	...	...	1	...	1	..	...	...	..	1	5	...	1	...	1	1
D. Street-car accidents	12	..	...	...	...	1	..	..	..	...	...	1	...	..	..	...	...	..	...	...	...	..	...	...	...
E. Automobile and motorcycle accidents	677	..	5	11	2	25	6	7	..	9	9	45	11	2	1	15	5	1	8	12	4	8	25	11	1
F. Other land transportation	39	..	...	...	2	...	..	..	..	...	...	...	2	..	..	2	...	..	...	...	2	..	2	...	1
G. Water transportation	85	..	5	2	...	5	4	..	..	1	1	4	2	..	..	...	...	..	1	...	...	2	4	1	...
H. Air transportation	8	..	...	...	...	...	1	1	..	...	...	1	...	..	..	...	...	..	...	...	...	1	...	...	...

TOWNS AND VILLAGES OF 5,000 AND OVER)—ONTARIO, 1938—Continued

ACCIDENTAL DEATHS

of the International List above)

and villages of 5,000 and over), 1937

ONTARIO, 1938

Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stormont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	
...	..	...	..	...	..	...	...	...	...	...	1	...	...	...	..	..	..	...	..	...	1	19	4	11	...	...	...	...	...	1	A
...	..	1	..	...	1	2	...	1	...	1	2	...	1	...	..	..	..	1	..	...	1	2	2	1	3	...	2	1	2	7	B
1	..	2	..	1	..	1	1	...	4	1	..	1	1	2	..	..	1	3	..	...	...	5	10	..	...	1	3	...	4	5	C
...		1	..	...	..	...	...	...	...	...	..	...	...	...	..	..	..	...	..	...	...	...	2	..	...	...	...	...	1	6	D
9	2	15	..	29	5	11	16	5	11	12	5	5	12	8	1	4	4	5	..	18	6	11	14	15	1	19	15	8	45	142	E
...	..	1	..	3	1	3	2	...	...	...	..	1	2	...	..	2	..	1	..	1	...	...	2	1	2	1	...	1	1	3	F
...	..	3	3	1	1	7	...	3	2	...	...	...	...	1	..	..	..	...	..	2	...	11	6	3	1	...	2	1	4	2	G
...	..	...	..	1	..	...	...	...	..	...	..	...	...	...	..	..	..	...	..	1	...	...	...	..	...	...	1	...	1	....	H

TABLE 43—DEATHS FROM CERTAIN CAUSES IN TOWNS AND

	Typhoid and paratyphoid fever	Measles	Scarlet fever	Whooping-cough	Diphtheria	Influenza	Poliomyelitis and polioencephalitis (acute)	Epidemic cerebrospinal meningitis	Tetanus	Tuberculosis	Syphilis	Diseases of the thyroid and parathyroid glands	Bronchitis	Pneumonia	Pleurisy	Puerperal septicaemia
Total towns and villages of 1,000 population and under 5,000	11	3	3	5		77	2		1	83	13	18	10	243	6	6
Acton														1		
Alexandria														4		
Alliston															1	
Almonte														6		
Amherstburg											1			2		
Arnprior										1				1		
Arthur													2	1		
Aurora										1						
Aylmer										1		1		2		
Barry's Bay																
Beamsville												1				
Blenheim														2		
Blind River						2				1	1	1		5		
Bowmanville						3				4				3		
Bracebridge														3		
Brighton														2		
Burlington	1													1		
Caledonia																
Campbellford	1									1				1		
Capreol														3		
Cardinal												1				
Carleton Place										2			1	2		
Chesley														1		
Chesterville											1			3		
Chippawa														2		
Clinton						1							1	2		
Cobalt		1				1				1			1	1		
Cochrane										7	2	1		6		
Coniston				1										1		
Copper Cliff											1			1		
Delhi														4		
Deseronto																
Dresden						1								5		
Dryden						1	1					1		2	1	
Dundas										1						
Dunnville							1			1				2		
Durham						3				1			1	1		
Eganville										1				2		
Elmira																
Elora						1								1		
Essex						1										
Exeter						1								2		
Fergus						1								2		
Forest													1	1		
Gananoque											1			2		
Georgetown				1								1				
Goderich						3				1				5		
Gravenhurst																
Grimsby														2		
Hagersville						1								1		
Haileybury	2		1			2				20				6		
Hanover				1										1		
Harriston										1				1		
Havelock														1		
Hespeler												1		1		
Humberstone						1								1		
Huntsville														4		
Iroquois														1		
Iroquois Falls						1				1				3		
Kapuskasing	1					1				1				2		
Keewatin										2				1		
Kemptville														1		
Kincardine			1											2		
Kingsville				1												
Lakefield												1				
Listowel		1												1		
Little Current										1						
Long Branch														1		
Lucknow													1			

VILLAGES OF 1,000 POPULATION AND UNDER 5,000—ONTARIO, 1938

	Typhoid and paratyphoid fever	Measles	Scarlet fever	Whooping cough	Diphtheria	Influenza	Poliomyelitis and polioencephalitis (acute)	Epidemic cerebrospinal meningitis	Tetanus	Tuberculosis	Syphilis	Diseases of the thyroid and parathyroid glands	Bronchitis	Pneumonia	Pleurisy	Puerperal septicaemia
Madoc	1					2								2		
Markham																
Mattawa			1							4				4		
Meaford						3								2		
Merritton						1								1		
Milton														1		
Milverton																
Mitchell																
Morrisburg														1		
Mount Forest										1		1		1		
Napanee										1	3		1			
New Hamburg														1		
New Liskeard						1										
Newmarket						3				1	1			3		1
Niagara						1				2				1		
Norwich						1								1		
Oakville														1	1	
Orangeville						2						1		3	1	
Palmerston						1								3		
Paris														4		
Parry Sound						7							1	6		
Penetanguishene						2				5				4		
Perth						2				1				6		
Petrolia	1									1				5		
Picton												1		11		1
Point Edward											1					
Port Credit														1		
Port Dalhousie						1								1		
Port Dover						1				1						
Port Elgin						2								1		
Port Hope						3				1		1		12		
Port Perry										2				2		
Prescott						1				1				1		
Rainy River	1													3		
Richmond Hill												1		1		
Ridgetown																
Rockcliffe Park										1				1		
Rockland																1
St. Mary's						1								1		
Seaforth										1				3	1	1
Shelburne						3										
Sioux Lookout										1	1			3		
Southampton										1						
Stayner										1						
Stouffville						3				1						
Strathroy	1											1		14		
Sturgeon Falls				1		1			1	1				2	1	
Tavistock										1				2		
Tecumseh																
Thessalon		1												2		
Tilbury														1		
Tillsonburg	2					4				2		1		3		
Tweed														2		
Uxbridge						1								3		
Vankleek Hill						1						2		2		
Victoria Harbour						1										
Walkerton						1								2		1
Wallaceburg										1				1		
Waterford														1		
Wiarton						1										
Winchester						1				1						
Wingham														1		1

381762
Gov.Doc. Ontario. Legislative Assembly
Ont Sessional papers.
L Vol.71, pt.3 (1939)

University of Toronto
Library

DO NOT
REMOVE
THE
CARD
FROM
THIS
POCKET

Acme Library Card Pocket •
LOWE-MARTIN CO. LIMITED